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Text Part Number: 78EE117C99-1130367253

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1.3 libcap 2.16 5.5.el6

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1.4 systemtap 4.0

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1.5 libcap-ng 0.6.4 3.el6_0.1

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1.6 vim 7.2.411 1.8.el6

1.6.1 Available under license :

```
" netrw.vim: Handles file transfer and remote directory listing across
"     AUTOLOAD SECTION
" Date: Oct 23, 2008
" Version: 134
" Maintainer: Charles E Campbell, Jr <NdrOchip@ScampbellPfamily.AbizM-NOSPAM>
" GetLatestVimScripts: 1075 1 :AutoInstall: netrw.vim
" Copyright: Copyright (C) 1999-2008 Charles E. Campbell, Jr. {{{1
"     Permission is hereby granted to use and distribute this code,
"     with or without modifications, provided that this copyright
"     notice is copied with it. Like anything else that's free,
"     netrw.vim, netrwPlugin.vim, and netrwSettings.vim are provided
"     *as is* and come with no warranty of any kind, either
"     expressed or implied. By using this plugin, you agree that
"     in no event will the copyright holder be liable for any damages
"     resulting from the use of this software.
"redraw!|call DechoSep()|call inputsave()|call input("Press <cr> to continue")|call inputrestore()
"
" But be doers of the Word, and not only hearers, deluding your own selves {{{1
" (James 1:22 RSV)
" =====
" Load Once: {{{1
if &cp || exists("g:loaded_netrw")
    finish
endif
let g:loaded_netrw = "v134"
if v:version < 702
    echohl WarningMsg
    echo "***warning*** this version of netrw needs vim 7.2"
    echohl Normal
    finish
endif
if !exists("s:NOTE")
```

```

let s:NOTE = 0
let s:WARNING = 1
let s:ERROR = 2
endif

" sanity checks
if v:version < 700
call netrw#ErrorMsg(s:WARNING,"you need vim version 7.0 or later for version ".g:loaded_netrw." of netrw",1)
finish
endif

let s:keepcpo= &cpo
setlocal cpo&vim
"DechoTabOn
"call Decho("doing autoload/netrw.vim version ".g:loaded_netrw)

" =====
" Netrw Variables: {{{1
" =====

" -----
" Netrw Constants: {{{2
if !exists("g:netrw_dirhist_cnt")
let g:netrw_dirhist_cnt= 0
endif
if !exists("s:LONGLIST")
let s:THINLIST = 0
let s:LONGLIST = 1
let s:WIDELIST = 2
let s:TREELIST = 3
let s:MAXLIST = 4
endif

" -----
" Default values for netrw's global protocol variables {{{2
if !exists("g:netrw_dav_cmd")
if executable("cadaver")
let g:netrw_dav_cmd = "cadaver"
elseif executable("curl")
let g:netrw_dav_cmd = "curl"
else
let g:netrw_dav_cmd = ""
endif
endif
if !exists("g:netrw_fetch_cmd")
if executable("fetch")
let g:netrw_fetch_cmd = "fetch -o"
else

```

```

let g:netrw_fetch_cmd = ""
endif
endif
if !exists("g:netrw_ftp_cmd")
let g:netrw_ftp_cmd = "ftp"
endif
if !exists("g:netrw_http_cmd")
if executable("elinks")
let g:netrw_http_cmd = "elinks"
if !exists("g:netrw_http_xcmd")
let g:netrw_http_xcmd= "-dump >"
endif
elseif executable("links")
let g:netrw_http_cmd = "links"
if !exists("g:netrw_http_xcmd")
let g:netrw_http_xcmd= "-dump >"
endif
elseif executable("curl")
let g:netrw_http_cmd = "curl"
if !exists("g:netrw_http_xcmd")
let g:netrw_http_xcmd= "-o"
endif
elseif executable("wget")
let g:netrw_http_cmd = "wget"
if !exists("g:netrw_http_xcmd")
let g:netrw_http_xcmd= "-q -O"
endif
elseif executable("fetch")
let g:netrw_http_cmd = "fetch"
if !exists("g:netrw_http_xcmd")
let g:netrw_http_xcmd= "-o"
endif
else
let g:netrw_http_cmd = ""
endif
endif
if !exists("g:netrw_rcp_cmd")
let g:netrw_rcp_cmd = "rcp"
endif
if !exists("g:netrw_rsync_cmd")
let g:netrw_rsync_cmd = "rsync"
endif
if !exists("g:netrw_scp_cmd")
let g:netrw_scp_cmd = "scp -q"
endif
if !exists("g:netrw_sftp_cmd")
let g:netrw_sftp_cmd = "sftp"
endif

```

```

if !exists("g:netrw_ssh_cmd")
let g:netrw_ssh_cmd= "ssh"
endif

if (has("win32") || has("win95") || has("win64") || has("win16"))
\ && exists("g:netrw_use_nt_rcp")
\ && g:netrw_use_nt_rcp
\ && executable( $SystemRoot ./system32/rcp.exe')
let s:netrw_has_nt_rcp = 1
let s:netrw_rcpmode = '-b'
else
let s:netrw_has_nt_rcp = 0
let s:netrw_rcpmode = ""
endif

" -----
" Default values for netrw's global variables {{{2
" Cygwin Detection ----- {{{3
if !exists("g:netrw_cygwin")
if has("win32") || has("win95") || has("win64") || has("win16")
if &shell =~ \%(\<bash>|\<zsh>)|\%(\.exe)\|= '$'
let g:netrw_cygwin= 1
else
let g:netrw_cygwin= 0
endif
endif
else
let g:netrw_cygwin= 0
endif
endif
endif
" Default values - a-c ----- {{{3
if !exists("g:netrw_alto")
let g:netrw_alto= &sb
endif
if !exists("g:netrw_altv")
let g:netrw_altv= &spr
endif
if !exists("g:netrw_browse_split")
let g:netrw_browse_split= 0
endif
if !exists("g:netrw_chgwin")
let g:netrw_chgwin = -1
endif
if !exists("g:netrw_compress")
let g:netrw_compress= "gzip"
endif
if !exists("g:netrw_ctags")
let g:netrw_ctags= "ctags"
endif

```

```

if !exists("g:netrw_cursorline")
let g:netrw_cursorline= 1
let s:netrw_usercul = &cursorline
let s:netrw_usercuc = &cursorcolumn
endif
" Default values - d-g ----- {{{3
if !exists("g:netrw_dirhist_cnt")
let g:netrw_dirhist_cnt= 0
endif
if !exists("g:netrw_decompress")
let g:netrw_decompress= { ".gz" : "gunzip" , ".bz2" : "bunzip2" , ".zip" : "unzip" , ".tar" : "tar -xf" }
endif
if !exists("g:netrw_dirhistmax")
let g:netrw_dirhistmax= 10
endif
if !exists("g:netrw_fastbrowse")
let g:netrw_fastbrowse= 1
endif
if !exists("g:netrw_ftp_browse_reject")
let g:netrw_ftp_browse_reject='^total\s\+\d\+\$\|^Trying\s\+\d\+\.*$\|^KERBEROS_V\d rejected\|^Security
extensions not\|No such file\|: connect to address [0-9a-fA-F:]*: No route to host$'
endif
if !exists("g:netrw_ftp_list_cmd")
if has("unix") || (exists("g:netrw_cygwin") && g:netrw_cygwin)
let g:netrw_ftp_list_cmd = "ls -lF"
let g:netrw_ftp_timelist_cmd = "ls -tlF"
let g:netrw_ftp_sizelist_cmd = "ls -slF"
else
let g:netrw_ftp_list_cmd = "dir"
let g:netrw_ftp_timelist_cmd = "dir"
let g:netrw_ftp_sizelist_cmd = "dir"
endif
endif
if !exists("g:netrw_ftpmode")
let g:netrw_ftpmode= "binary"
endif
" Default values - h-lh ----- {{{3
if !exists("g:netrw_hide")
let g:netrw_hide= 1
endif
if !exists("g:netrw_ignorenetrc")
if &shell =~ \c<\%(cmd\|4nt)\.exe$'
let g:netrw_ignorenetrc= 1
else
let g:netrw_ignorenetrc= 0
endif
endif
if !exists("g:netrw_keepdir")

```

```

let g:netrw_keepdir= 1
endif
if !exists("g:netrw_list_cmd")
if g:netrw_scp_cmd =~ '^pscp' && executable("pscp")
" provide a 'pscp' listing command
if (has("win32") || has("win95") || has("win64") || has("win16")) && filereadable("c:\\private.ppk")
let g:netrw_scp_cmd="pscp -i C:\\private.ppk"
endif
let g:netrw_list_cmd= g:netrw_scp_cmd." -ls USEPORT HOSTNAME:"
elseif executable(g:netrw_ssh_cmd)
" provide a default listing command
let g:netrw_list_cmd= g:netrw_ssh_cmd." USEPORT HOSTNAME ls -FLa"
else
" call Decho(g:netrw_ssh_cmd." is not executable")
let g:netrw_list_cmd= ""
endif
endif
if !exists("g:netrw_list_hide")
let g:netrw_list_hide= ""
endif
" Default values - lh-lz ----- {{{3
if !exists("g:netrw_localcopycmd")
if has("win32") || has("win95") || has("win64") || has("win16")
if g:netrw_cygwin
let g:netrw_localcopycmd= "cp"
else
let g:netrw_localcopycmd= "copy"
endif
elseif has("unix") || has("macunix")
let g:netrw_localcopycmd= "cp"
else
let g:netrw_localcopycmd= ""
endif
endif
if !exists("g:netrw_local_mkdir")
let g:netrw_local_mkdir= "mkdir"
endif
if !exists("g:netrw_localmovecmd")
if has("win32") || has("win95") || has("win64") || has("win16")
if g:netrw_cygwin
let g:netrw_localmovecmd= "mv"
else
let g:netrw_localmovecmd= "move"
endif
elseif has("unix") || has("macunix")
let g:netrw_localmovecmd= "mv"
else
let g:netrw_localmovecmd= ""

```

```

endif
endif
if !exists("g:netrw_local_rmdir")
let g:netrw_local_rmdir= "rmdir"
endif
if !exists("g:netrw_liststyle")
let g:netrw_liststyle= s:THINLIST
endif
if g:netrw_liststyle < 0 || g:netrw_liststyle >= s:MAXLIST
" sanity check
let g:netrw_liststyle= s:THINLIST
endif
if g:netrw_liststyle == s:LONGLIST && g:netrw_scp_cmd !~ '^pscp'
let g:netrw_list_cmd= g:netrw_list_cmd." -l"
endif
" Default values - m-r ----- {{{3
if !exists("g:netrw_markfileesc")
let g:netrw_markfileesc= '*/[\~'
endif
if !exists("g:netrw_maxfilenamelen")
let g:netrw_maxfilenamelen= 32
endif
if !exists("g:netrw_menu")
let g:netrw_menu= 1
endif
if !exists("g:netrw_mkdir_cmd")
let g:netrw_mkdir_cmd= g:netrw_ssh_cmd." USEPORT HOSTNAME mkdir"
endif
if !exists("g:netrw_mousemaps")
if exists("&mouse") && &mouse =~ '[anh]'
let g:netrw_mousemaps= 1
else
let g:netrw_mousemaps= 0
endif
endif
if !exists("g:netrw_retmap")
let g:netrw_retmap= 0
endif
if !exists("g:netrw_preview")
let g:netrw_preview= 0
endif
if !exists("g:netrw_scpport")
let g:netrw_scpport= "-P"
endif
if !exists("g:netrw_sshport")
let g:netrw_sshport= "-p"
endif
if !exists("g:netrw_rename_cmd")

```

```

let g:netrw_rename_cmd= g:netrw_ssh_cmd." USEPORT HOSTNAME mv"
endif
if !exists("g:netrw_rm_cmd")
let g:netrw_rm_cmd = g:netrw_ssh_cmd." USEPORT HOSTNAME rm"
endif
if !exists("g:netrw_rmdir_cmd")
let g:netrw_rmdir_cmd = g:netrw_ssh_cmd." USEPORT HOSTNAME rmdir"
endif
if !exists("g:netrw_rmrf_cmd")
let g:netrw_rmrf_cmd = g:netrw_ssh_cmd." USEPORT HOSTNAME rm -f"
endif
" Default values - s ----- {{{3
" set up shell quoting character
if exists("g:netrw_silent") && g:netrw_silent != 0
let s:netrw_silentxfer= "silent "
else
let s:netrw_silentxfer= ""
endif
if !exists("g:netrw_sort_by")
" alternatives: date size
let g:netrw_sort_by= "name"
endif
if !exists("g:netrw_sort_options")
let g:netrw_sort_options= ""
endif
if !exists("g:netrw_sort_direction")
" alternative: reverse (z y x ...)
let g:netrw_sort_direction= "normal"
endif
if !exists("g:netrw_sort_sequence")
let g:netrw_sort_sequence= '[\V]$,\.h$,\.c$,\.cpp$,*,\.o$,\.obj$,\.info$,\.swp$,\.bak$,\~$'
endif
if !exists("g:netrw_special_syntax")
let g:netrw_special_syntax= 0
endif
if !exists("g:netrw_ssh_browse_reject")
let g:netrw_ssh_browse_reject='^total\s\+\d\+$'
endif
if !has("patch192")
if !exists("g:netrw_use_noswf")
let g:netrw_use_noswf= 1
endif
else
let g:netrw_use_noswf= 0
endif
" Default values - t-w ----- {{{3
if !exists("g:netrw_timefmt")
let g:netrw_timefmt= "%c"

```

```

endif
if !exists("g:netrw_xstrlen")
let g:netrw_xstrlen= 1
endif
if !exists("g:NetrwTopLvlMenu")
let g:NetrwTopLvlMenu= "Netrw."
endif
if !exists("g:netrw_use_errorwindow")
let g:netrw_use_errorwindow= 1
endif
if !exists("g:netrw_win95ftp")
let g:netrw_win95ftp= 1
endif
if !exists("g:netrw_winsize")
let g:netrw_winsize= ""
endif
" -----
" Default values for netrw's script variables: {{{2
if !exists("g:netrw_fname_escape")
let g:netrw_fname_escape= '?&:%'
endif
if !exists("g:netrw_glob_escape")
let g:netrw_glob_escape= '[]*?{~$'
endif
if !exists("g:netrw_tmpfile_escape")
let g:netrw_tmpfile_escape= '&';
endif
let s:netrw_map_escape = "<\n\r\\<C-V>\"

" BufEnter event ignored by decho when following variable is true
" Has a side effect that doau BufReadPost doesn't work, so
" files read by network transfer aren't appropriately highlighted.
"let g:decho_bufenter = 1 "Decho

" =====
" Netrw Utility Functions: {{{1
" =====

" -----
" s:NetrwOptionSave: save options and set to "standard" form {{{2
" 06/08/07 : removed call to NetrwSafeOptions(), either placed
" immediately after NetrwOptionSave() calls in NetRead
" and NetWrite, or after the s:NetrwEnew() call in
" NetrwBrowse.
" vt: normally its "w:" or "s:" (a variable type)
fun! s:NetrwOptionSave(vt)
" call Dfunc("s:NetrwOptionSave(vt<".a:vt."> win#".winnr())." buf#".bufnr("%")."<".bufname(bufnr("%")).">")

```

```

" call Decho(a:vt."netrw_optionsave".(exists("{a:vt}netrw_optionsave")? ("=".{a:vt}netrw_optionsave) : " doesn't
exist"))
if !exists("{a:vt}netrw_optionsave")
  let {a:vt}netrw_optionsave= 1
else
" call Dret("s:NetrwOptionSave : options already saved")
  return
endif
" call Decho("fo=".&fo.(exists("&acd")? " acd=".&acd : " acd doesn't exist"))

" Save current settings and current directory
let s:yykeep      = @@
if exists("&l:acd")
  let {a:vt}netrw_acdkeep = &l:acd
endif
let {a:vt}netrw_aikeep  = &l:ai
let {a:vt}netrw_awkeep  = &l:aw
let {a:vt}netrw_cikeep  = &l:ci
let {a:vt}netrw_cinkeep = &l:cin
let {a:vt}netrw_cinokeep = &l:cino
let {a:vt}netrw_comkeep = &l:com
let {a:vt}netrw_cpokeep = &l:cpo
if g:netrw_keepdir
  let {a:vt}netrw_dirkeep = getcwd()
endif
let {a:vt}netrw_fokeep = &l:fo      " formatoptions
let {a:vt}netrw_gdkeep = &l:gd      " gdefault
let {a:vt}netrw_hidkeep = &l:hidden
let {a:vt}netrw_magickeep = &l:magic
let {a:vt}netrw_repkeep = &l:report
let {a:vt}netrw_spellkeep = &l:spell
let {a:vt}netrw_twkeep = &l:tw      " textwidth
let {a:vt}netrw_wigkeep = &l:wig    " wildignore
if has("win32") && !has("win95")
  let {a:vt}netrw_swfkeep = &l:swf    " swapfile
endif
if &go =~ 'a' | silent! let {a:vt}netrw_regstar = @* | endif
silent! let {a:vt}netrw_regslash= @/

" call Dret("s:NetrwOptionSave : win#" .winnr(). " buf#" .bufnr("%"))
endfun

" -----
" s:NetrwOptionRestore: restore options {{{2
fun! s:NetrwOptionRestore(vt)
" call Dfunc("s:NetrwOptionRestore(vt<"a:vt.> win#" .winnr(). " buf#" .bufnr("%"))
if !exists("{a:vt}netrw_optionsave")
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)

```

```

" call Dret("s:NetrwOptionRestore : ".a:vt."netrw_optionsave doesn't exist")
return
endif
unlet {a:vt}netrw_optionsave

if exists("&acd")
if exists("{a:vt}netrw_acdkeep")
" call Decho("g:netrw_keepdir=".g:netrw_keepdir.": getcwd<".getcwd()."> acd=".&acd)
let curdir = getcwd()
let &l:acd = {a:vt}netrw_acdkeep
unlet {a:vt}netrw_acdkeep
if &l:acd
" call Decho("exe keepjumps lcd ".fnameescape(curdir)) " NOTE: was g:netrw_fname_escape for some reason
try
if !exists("&l:acd") && !&l:acd
exe 'keepjumps lcd '.fnameescape(curdir)
endif
catch /^Vim\%((\a+)\)=:E472/
call netrw#ErrorMsg(s:ERROR,"unable to change directory to <".curdir."> (permissions?)",61)
endtry
endif
endif
endif

if exists("{a:vt}netrw_aikeep") |let &l:ai = {a:vt}netrw_aikeep |unlet {a:vt}netrw_aikeep |endif
if exists("{a:vt}netrw_awkeep") |let &l:aw = {a:vt}netrw_awkeep |unlet {a:vt}netrw_awkeep |endif
if exists("{a:vt}netrw_cikeep") |let &l:ci = {a:vt}netrw_cikeep |unlet {a:vt}netrw_cikeep |endif
if exists("{a:vt}netrw_cinkeep") |let &l:cin = {a:vt}netrw_cinkeep |unlet {a:vt}netrw_cinkeep |endif
if exists("{a:vt}netrw_cinokeep") |let &l:cino = {a:vt}netrw_cinokeep |unlet {a:vt}netrw_cinokeep |endif
if exists("{a:vt}netrw_comkeep") |let &l:com = {a:vt}netrw_comkeep |unlet {a:vt}netrw_comkeep |endif
if exists("{a:vt}netrw_cpokeep") |let &l:cpo = {a:vt}netrw_cpokeep |unlet {a:vt}netrw_cpokeep |endif
if exists("{a:vt}netrw_dirkeep") && isdirectory({a:vt}netrw_dirkeep) && g:netrw_keepdir
let dirkeep = substitute({a:vt}netrw_dirkeep, "\\',/'g)
if exists("{a:vt}netrw_dirkeep") |exe "keepjumps lcd ".fnameescape(dirkeep)|unlet {a:vt}netrw_dirkeep |endif
endif

if exists("{a:vt}netrw_fokeep") |let &l:fo = {a:vt}netrw_fokeep |unlet {a:vt}netrw_fokeep |endif
if exists("{a:vt}netrw_gdkeep") |let &l:gd = {a:vt}netrw_gdkeep |unlet {a:vt}netrw_gdkeep |endif
if exists("{a:vt}netrw_hidkeep") |let &l:hidden = {a:vt}netrw_hidkeep |unlet {a:vt}netrw_hidkeep |endif
if exists("{a:vt}netrw_magic") |let &l:magic = {a:vt}netrw_magic |unlet {a:vt}netrw_magic |endif
if exists("{a:vt}netrw_repkeep") |let &l:report = {a:vt}netrw_repkeep |unlet {a:vt}netrw_repkeep |endif
if exists("{a:vt}netrw_spellkeep")|let &l:spell = {a:vt}netrw_spellkeep |unlet {a:vt}netrw_spellkeep|endif
if exists("{a:vt}netrw_twkeep") |let &l:tw = {a:vt}netrw_twkeep |unlet {a:vt}netrw_twkeep |endif
if exists("{a:vt}netrw_wigkeep") |let &l:wig = {a:vt}netrw_wigkeep |unlet {a:vt}netrw_wigkeep |endif
if exists("s:yykeep") |let @@ = s:yykeep |unlet s:yykeep |endif
if exists("{a:vt}netrw_swfkeep")
if &directory == ""
" user hasn't specified a swapfile directory;
" netrw will temporarily set the swapfile directory
" to the current directory as returned by getcwd().

```

```

let &l:directory = getcwd()
silent! let &l:swf = {a:vt}netrw_swfkeep
setlocal directory=
unlet {a:vt}netrw_swfkeep
elseif &l:swf != {a:vt}netrw_swfkeep
" following line causes a Press ENTER in windows -- can't seem to work around it!!!
silent! let &l:swf= {a:vt}netrw_swfkeep
unlet {a:vt}netrw_swfkeep
endif
endif
if exists("{a:vt}netrw_regstar")|silent! let @*= {a:vt}netrw_regstar|unlet {a:vt}netrw_regstar|endif
if exists("{a:vt}netrw_regslash")|silent! let @/= {a:vt}netrw_regslash|unlet {a:vt}netrw_regslash|endif

" call Decho("g:netrw_keepdir="g:netrw_keepdir.": getcwd<".getcwd()."> acd=".&acd)
" call Decho("fo=".&fo.(exists("&acd")? " acd=".&acd : " acd doesn't exist"))
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwOptionRestore : win#" .winnr(). " buf#" .bufnr("%"))
endfun

" -----
" s:NetrwSafeOptions: sets options to help netrw do its job {{{2
fun! s:NetrwSafeOptions()
" call Dfunc("s:NetrwSafeOptions() win#" .winnr(). " buf#" .bufnr("%"). "<" .bufname(bufnr("%")). ">")
" call Decho("window's ft=".&ft)
setlocal cino=
setlocal com=
setlocal cpo-=aA
if exists("&acd") | setlocal noacd | endif
setlocal nocin noai noci magic nospell nohid wig= noaw
setlocal fo=nroql2
setlocal tw=0
setlocal report=10000
setlocal isk+=@ isk+=* isk+=/
if g:netrw_use_noswf && has("win32") && !has("win95")
setlocal noswf
endif
" call Decho("fo=".&fo.(exists("&acd")? " acd=".&acd : " acd doesn't exist"))
" call Dret("s:NetrwSafeOptions")
endfun

" -----
" netrw#NetrwClean: remove netrw {{{2
" supports :NetrwClean -- remove netrw from first directory on runtimepath
" :NetrwClean! -- remove netrw from all directories on runtimepath
fun! netrw#NetrwClean(sys)
" call Dfunc("netrw#NetrwClean(sys=" .a:sys. ")")

if a:sys

```

```

let choice= confirm("Remove personal and system copies of netrw?",&Yes\n&No")
else
let choice= confirm("Remove personal copy of netrw?",&Yes\n&No")
endif
" call Decho("choice=".choice)
let diddel= 0
let diddir= ""

if choice == 1
for dir in split(&rtp,')
if filereadable(dir."/plugin/netrwPlugin.vim")
" call Decho("removing netrw-related files from ".dir)
if s:NetrwDelete(dir."/plugin/netrwPlugin.vim") |call netrw#ErrorMsg(1,"unable to remove
.dir."/plugin/netrwPlugin.vim",55) |endif
if s:NetrwDelete(dir."/autoload/netrwFileHandlers.vim")|call netrw#ErrorMsg(1,"unable to remove
.dir."/autoload/netrwFileHandlers.vim",55)|endif
if s:NetrwDelete(dir."/autoload/netrwSettings.vim") |call netrw#ErrorMsg(1,"unable to remove
.dir."/autoload/netrwSettings.vim",55) |endif
if s:NetrwDelete(dir."/autoload/netrw.vim") |call netrw#ErrorMsg(1,"unable to remove
.dir."/autoload/netrw.vim",55) |endif
if s:NetrwDelete(dir."/syntax/netrw.vim") |call netrw#ErrorMsg(1,"unable to remove
.dir."/syntax/netrw.vim",55) |endif
if s:NetrwDelete(dir."/syntax/netrwlist.vim") |call netrw#ErrorMsg(1,"unable to remove
.dir."/syntax/netrwlist.vim",55) |endif
let diddir= dir
let diddel= diddel + 1
if !a:sys|break|endif
endif
endif

echohl WarningMsg
if diddel == 0
echomsg "netrw is either not installed or not removable"
elseif diddel == 1
echomsg "removed one copy of netrw from <".diddir.">"
else
echomsg "removed ".diddel." copies of netrw"
endif
echohl None

" call Dret("netrw#NetrwClean")
endfun

" -----
" Netrw Transfer Functions: {{{1
" =====

```

```

" -----
" netrw#NetRead: responsible for reading a file over the net {{{2
" mode: =0 read remote file and insert before current line
"   =1 read remote file and insert after current line
"   =2 replace with remote file
"   =3 obtain file, but leave in temporary format
fun! netrw#NetRead(mode,...)
" call Dfunc("netrw#NetRead(mode=".a:mode.",...) a:0=".a:0." ".g:loaded_netrw)

" save options {{{3
call s:NetrwOptionSave("w:")
call s:NetrwSafeOptions()

" interpret mode into a readcmd {{{3
if a:mode == 0 " read remote file before current line
let readcmd = "0r"
elseif a:mode == 1 " read file after current line
let readcmd = "r"
elseif a:mode == 2 " replace with remote file
let readcmd = "%r"
elseif a:mode == 3 " skip read of file (leave as temporary)
let readcmd = "t"
else
exe a:mode
let readcmd = "r"
endif
let icoice = (a:0 == 0)? 0 : 1
" call Decho("readcmd<".readcmd."> icoice=".icoice)

" Get Temporary Filename {{{3
let tmpfile= s:GetTempfile("")
if tmpfile == ""
" call Dret("netrw#NetRead : unable to get a tempfile!")
return
endif

while icoice <= a:0

" attempt to repeat with previous host-file-etc
if exists("b:netrw_lastfile") && a:0 == 0
" call Decho("using b:netrw_lastfile<" . b:netrw_lastfile . ">")
let choice = b:netrw_lastfile
let icoice= icoice + 1

else
exe "let choice= a:" . icoice
" call Decho("no lastfile: choice<" . choice . ">")

```

```

if match(choice,"?") == 0
" give help
echomsg 'NetRead Usage:'
echomsg ':Nread machine:path          uses rcp'
echomsg ':Nread "machine path"        uses ftp  with <.netrc>'
echomsg ':Nread "machine id password path"    uses ftp'
echomsg ':Nread dav://machine[:port]/path    uses cadaver'
echomsg ':Nread fetch://machine/path        uses fetch'
echomsg ':Nread ftp://[user@]machine[:port]/path  uses ftp  autodetects <.netrc>'
echomsg ':Nread http://[user@]machine/path    uses http  wget'
echomsg ':Nread rcp://[user@]machine/path    uses rcp'
echomsg ':Nread rsync://machine[:port]/path    uses rsync'
echomsg ':Nread scp://[user@]machine[:#]port]/path  uses scp'
echomsg ':Nread sftp://[user@]machine[:#]port]/path  uses sftp'
sleep 4
break

elseif match(choice,'^') != -1
" Reconstruct Choice if choice starts with ""
" call Decho("reconstructing choice")
if match(choice,"$") != -1
" case "... "
let choice=strpart(choice,1,strlen(choice)-2)
else
" case "... .. ."
let choice  = strpart(choice,1,strlen(choice)-1)
let wholechoice = ""

while match(choice,"$") == -1
let wholechoice = wholechoice . " " . choice
let ichoice  = ichoice + 1
if ichoice > a:0
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"Unbalanced string in filename ". wholechoice . """,3)
endif
" call Dret("netrw#NetRead :2 getcwd<".getcwd().">")
return
endif
let choice= a:{ichoice}
endwhile
let choice= strpart(wholechoice,1,strlen(wholechoice)-1) . " " . strpart(choice,0,strlen(choice)-1)
endif
endif
endif

" call Decho("choice<" . choice . ">")
let ichoice= ichoice + 1

```

```

" Determine method of read (ftp, rcp, etc) {{{3
call s:NetrwMethod(choice)
if !exists("b:netrw_method") || b:netrw_method < 0
" call Dfunc("netrw#NetRead : unsupported method")
return
endif
let tmpfile= s:GetTempfile(b:netrw_fname) " apply correct suffix

" Check if NetrwBrowse() should be handling this request
" call Decho("checking if NetrwBrowse() should handle choice<".choice."> with
netrw_list_cmd<".g:netrw_list_cmd.">")
if choice =~ "^.*[V]$" && b:netrw_method != 5 && choice !~ '^http://'
" call Decho("yes, choice matches '^.*[V]$"")
keepjumps call s:NetrwBrowse(0,choice)
" call Dret("netrw#NetRead :3 getcwd<".getcwd().">")
return
endif

" =====
" Perform Protocol-Based Read {{{3
" =====
if exists("g:netrw_silent") && g:netrw_silent == 0 && &ch >= 1
echo "(netrw) Processing your read request..."
endif

".....
" rcp: NetRead Method #1 {{{3
if b:netrw_method == 1 " read with rcp
" call Decho("read via rcp (method #1)")
" ER: nothing done with g:netrw_uid yet?
" ER: on Win2K" rcp machine[.user]:file tmpfile
" ER: if machine contains '.' adding .user is required (use $USERNAME)
" ER: the tmpfile is full path: rcp sees C:\... as host C
if s:netrw_has_nt_rcp == 1
if exists("g:netrw_uid") && ( g:netrw_uid != "" )
let uid_machine = g:netrw_machine .'.'. g:netrw_uid
else
" Any way needed it machine contains a '.'
let uid_machine = g:netrw_machine .'.'. $USERNAME
endif
else
if exists("g:netrw_uid") && ( g:netrw_uid != "" )
let uid_machine = g:netrw_uid .'@'. g:netrw_machine
else
let uid_machine = g:netrw_machine
endif
endif
" call Decho("executing: !".g:netrw_rcp_cmd." ".s:netrw_rcpmode."

```

```

".shellescape(uid_machine.":".b:netrw_fname,1)." ".shellescape(tmpfile,1))
exe s:netrw_silentxfer."!".g:netrw_rcp_cmd." ".s:netrw_rcpmode."
".shellescape(uid_machine.":".b:netrw_fname,1)." ".shellescape(tmpfile,1)
let result      = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" ftp + <.netrc>: NetRead Method #2 {{{3
elseif b:netrw_method == 2 " read with ftp + <.netrc>
"  call Decho("read via ftp+.netrc (method #2)")
let netrw_fname= b:netrw_fname
call s:SaveBufVars()|new|call s:RestoreBufVars()
let filtbuf= bufnr("%")
setlocal ff=unix
put =g:netrw_ftpmode
"  call Decho("filter input: ".getline(line("$")))
if exists("g:netrw_ftpextracmd")
put =g:netrw_ftpextracmd
"  call Decho("filter input: ".getline(line("$")))
endif
call setline(line("$")+1,'get "'.netrw_fname.'" '.tmpfile)
"  call Decho("filter input: ".getline(line("$")))
if exists("g:netrw_port") && g:netrw_port != ""
"  call Decho("executing: %!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine." ".g:netrw_port,1))
exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine." ".g:netrw_port,1)
else
"  call Decho("executing: %!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1))
exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)
endif
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
let debugkeep = &debug
setlocal debug=msg
call netrw#ErrorMsg(s:ERROR,getline(1),4)
let &debug = debugkeep
endif
call s:SaveBufVars()
bd!
if bufname("%") == "" && getline("$") == "" && line('$') == 1
" needed when one sources a file in a nolbl setting window via ftp
q!
endif
call s:RestoreBufVars()
let result      = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" ftp + machine,id,passwd,filename: NetRead Method #3 {{{3

```

```

elseif b:netrw_method == 3 " read with ftp + machine, id, passwd, and fname
" Construct execution string (four lines) which will be passed through filter
" call Decho("read via ftp+mipf (method #3)")
let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
call s:SaveBufVars()|new|call s:RestoreBufVars()
let filtbuf= bufnr("% ")
setlocal ff=unix
if exists("g:netrw_port") && g:netrw_port != ""
put ='open '.g:netrw_machine.' '.g:netrw_port
" call Decho("filter input: ".getline('.'))
else
put ='open '.g:netrw_machine
" call Decho("filter input: ".getline('.'))
endif

if exists("g:netrw_ftp") && g:netrw_ftp == 1
put =g:netrw_uid
" call Decho("filter input: ".getline('.'))
put =\".s:netrw_passwd.\"
" call Decho("filter input: ".getline('.'))
else
put ='user \".g:netrw_uid.\" \".s:netrw_passwd.\"
" call Decho("filter input: ".getline('.'))
endif

if exists("g:netrw_ftpmode") && g:netrw_ftpmode != ""
put =g:netrw_ftpmode
" call Decho("filter input: ".getline('.'))
endif
if exists("g:netrw_ftpextracmd")
put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('.'))
endif
put ='get \".netrw_fname.\" '.tmpfile
" call Decho("filter input: ".getline('.'))

" perform ftp:
" -i : turns off interactive prompting from ftp
" -n unix : DON'T use <.netrc>, even though it exists
" -n win32: quit being obnoxious about password
norm! 1Gdd
" call Decho("executing: %!".g:netrw_ftp_cmd." -i -n")
exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i -n"
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
if getline(1) !~ "^$"
" call Decho("error<".getline(1).">")
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,getline(1),5)

```

```

endif
endif
call s:SaveBufVars()|bd!|call s:RestoreBufVars()
let result      = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" scp: NetRead Method #4 {{{3
elseif b:netrw_method == 4 " read with scp
" call Decho("read via scp (method #4)")
if exists("g:netrw_port") && g:netrw_port != ""
let useport= " ".g:netrw_scpport." ".g:netrw_port
else
let useport= ""
endif
" call Decho("exe s:netrw_silentxfer.!"g:netrw_scp_cmd.useport."
".shellescape(g:netrw_machine.":"b:netrw_fname,1)." ".shellescape(tmpfile,1))
exe s:netrw_silentxfer.!"g:netrw_scp_cmd.useport." ".shellescape(g:netrw_machine.":"b:netrw_fname,1)."
".shellescape(tmpfile,1)
let result      = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" http: NetRead Method #5 (wget) {{{3
elseif b:netrw_method == 5
" call Decho("read via http (method #5)")
if g:netrw_http_cmd == ""
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"neither the wget nor the fetch command is available",6)
endif
" call Dret("netrw#NetRead :4 getcwd<".getcwd().">")
return
endif

if match(b:netrw_fname,"#") == -1 || exists("g:netrw_http_xcmd")
" using g:netrw_http_cmd (usually elinks, links, curl, wget, or fetch)
" call Decho('using '.g:netrw_http_cmd.' (# not in b:netrw_fname<'.b:netrw_fname.">')')
if exists("g:netrw_http_xcmd")
" call Decho("exe ".s:netrw_silentxfer.!"g:netrw_http_cmd."
".shellescape("http://".g:netrw_machine.b:netrw_fname,1)." ".g:netrw_http_xcmd." ".shellescape(tmpfile,1))
exe s:netrw_silentxfer.!"g:netrw_http_cmd." ".shellescape("http://".g:netrw_machine.b:netrw_fname,1)."
".g:netrw_http_xcmd." ".shellescape(tmpfile,1)
else
" call Decho("exe ".s:netrw_silentxfer.!"g:netrw_http_cmd." ".shellescape(tmpfile,1)."
".shellescape("http://".g:netrw_machine.b:netrw_fname,1))
exe s:netrw_silentxfer.!"g:netrw_http_cmd." ".shellescape(tmpfile,1)."
".shellescape("http://".g:netrw_machine.b:netrw_fname,1)
endif

```

```

let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)

else
" wget/curl/fetch plus a jump to an in-page marker (ie. http://abc/def.html#aMarker)
" call Decho("wget/curl plus jump (# in b:netrw_fname<" .b:netrw_fname.">")
let netrw_html= substitute(b:netrw_fname,"#.*$", "", "")
let netrw_tag = substitute(b:netrw_fname,"^.*#", "", "")
" call Decho("netrw_html<".netrw_html.">")
" call Decho("netrw_tag <".netrw_tag.">")
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape(tmpfile,1)."
".shellescape("http://".g:netrw_machine.netrw_html,1)
exe s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape(tmpfile,1)."
".shellescape("http://".g:netrw_machine.netrw_html,1)
let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
" call Decho('<\s*a\s*name=\s*"' .netrw_tag.'"/')
exe 'norm! 1G/<\s*a\s*name=\s*"' .netrw_tag.'"/.'\<CR>'
endif
let b:netrw_lastfile = choice
setlocal ro

".....
" dav: NetRead Method #6 {{{3
elseif b:netrw_method == 6
" call Decho("read via cadaver (method #6)")

if !executable(g:netrw_dav_cmd)
call netrw#ErrorMsg(s:ERROR,g:netrw_dav_cmd." is not executable",73)
" call Dret("netrw#NetRead : ".g:netrw_dav_cmd." not executable")
return
endif
if g:netrw_dav_cmd =~ "curl"
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_dav_cmd."
".shellescape("dav://".g:netrw_machine.b:netrw_fname,1)." ".shellescape(tmpfile,1))
exe s:netrw_silentxfer."!".g:netrw_dav_cmd." ".shellescape("dav://".g:netrw_machine.b:netrw_fname,1)."
".shellescape(tmpfile,1)
else
" Construct execution string (four lines) which will be passed through filter
let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
new
setlocal ff=unix
if exists("g:netrw_port") && g:netrw_port != ""
put ='open '.g:netrw_machine.' '.g:netrw_port
else
put ='open '.g:netrw_machine
endif
put ='user '.g:netrw_uid.' '.s:netrw_passwd
put ='get '.netrw_fname.' '.tmpfile
put ='quit'

```

```

" perform cadaver operation:
norm! 1Gdd
" call Decho("executing: %!".g:netrw_dav_cmd)
exe s:netrw_silentxfer."%!".g:netrw_dav_cmd
bd!
endif
let result      = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" rsync: NetRead Method #7 {{{3
elseif b:netrw_method == 7
" call Decho("read via rsync (method #7)")
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_rsync_cmd."
.shellescape(g:netrw_machine.":".b:netrw_fname,1)." ".shellescape(tmpfile,1))
exe s:netrw_silentxfer."!".g:netrw_rsync_cmd." ".shellescape(g:netrw_machine.":".b:netrw_fname,1)."
.shellescape(tmpfile,1)
let result = s:NetrwGetFile(readcmd,tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" fetch: NetRead Method #8 {{{3
" fetch://[user@]host[:http]/path
elseif b:netrw_method == 8
" call Decho("read via fetch (method #8)")
if g:netrw_fetch_cmd == ""
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"fetch command not available",7)
endif
" call Dret("NetRead")
endif
if exists("g:netrw_option") && g:netrw_option == "http"
let netrw_option= "http"
else
let netrw_option= "ftp"
endif
" call Decho("read via fetch for ".netrw_option)

if exists("g:netrw_uid") && g:netrw_uid != "" && exists("s:netrw_passwd") && s:netrw_passwd != ""
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
.shellescape(netrw_option."://".g:netrw_uid."!:".s:netrw_passwd.'@'.g:netrw_machine."/"'.b:netrw_fname,1))
exe s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
.shellescape(netrw_option."://".g:netrw_uid."!:".s:netrw_passwd.'@'.g:netrw_machine."/"'.b:netrw_fname,1)
else
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
.shellescape(netrw_option."://".g:netrw_machine."/"'.b:netrw_fname,1))
exe s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."

```

```

"shellescape(netrw_option."/"/".g:netrw_machine."/"/".b:netrw_fname,1)
endif

let result = s:NetrwGetFile(readcmd,tmpfile, b:netrw_method)
let b:netrw_lastfile = choice
setlocal ro

".....
" sftp: NetRead Method #9 {{{3
elseif b:netrw_method == 9
" call Decho("read via sftp (method #9)")
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_sftp_cmd."
"shellescape(g:netrw_machine."/"/".b:netrw_fname,1)." ".tmpfile)
exe s:netrw_silentxfer."!".g:netrw_sftp_cmd." "shellescape(g:netrw_machine."/"/".b:netrw_fname,1)." ".tmpfile)
let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" Complain {{{3
else
call netrw#ErrorMsg(s:WARNING,"unable to comply with your request<" . choice . ">",8)
endif
endwhile

" cleanup {{{3
if exists("b:netrw_method")
" call Decho("cleanup b:netrw_method and b:netrw_fname")
unlet b:netrw_method
unlet b:netrw_fname
endif
if s:FileReadable(tmpfile) && tmpfile !~ '.tar.bz2$' && tmpfile !~ '.tar.gz$' && tmpfile !~ '.zip' && tmpfile !~ '.tar'
&& readcmd != 't'
" call Decho("cleanup by deleting tmpfile<".tmpfile.">")
call s:NetrwDelete(tmpfile)
endif
call s:NetrwOptionRestore("w:")

" call Dret("netrw#NetRead :5 getcwd<".getcwd().">")
endfun

" -----
" netrw#NetWrite: responsible for writing a file over the net {{{2
fun! netrw#NetWrite(...) range
" call Dfunc("netrw#NetWrite(a:0=" .a:0." ) ".g:loaded_netrw)

" option handling
let mod= 0
call s:NetrwOptionSave("w:")

```

```

call s:NetrwSafeOptions()

" Get Temporary Filename {{{3
let tmpfile= s:GetTempfile("")
if tmpfile == ""
" call Dret("netrw#NetWrite : unable to get a tempfile!")
return
endif

if a:0 == 0
let icoice = 0
else
let icoice = 1
endif

let curbufname= expand("%")
" call Decho("curbufname<".curbufname.">")
if &binary
" For binary writes, always write entire file.
" (line numbers don't really make sense for that).
" Also supports the writing of tar and zip files.
" call Decho("(write entire file) silent exe w! ".fnameescape(v:cmdarg)." ".fnameescape(tmpfile))
silent exe "w! ".fnameescape(v:cmdarg)." ".fnameescape(tmpfile)
elseif g:netrw_cygwin
" write (selected portion of) file to temporary
let cygtmpfile= substitute(tmpfile,'/cygdrive/(\.?)',\1:',")
" call Decho("(write selected portion) silent exe ".a:firstline."," . a:lastline . "w! ".fnameescape(v:cmdarg)."
".fnameescape(cygtmpfile))
silent exe a:firstline."," . a:lastline . "w! ".fnameescape(v:cmdarg)." ".fnameescape(cygtmpfile)
else
" write (selected portion of) file to temporary
" call Decho("(write selected portion) silent exe ".a:firstline."," . a:lastline . "w! ".fnameescape(v:cmdarg)."
".fnameescape(tmpfile))
silent exe a:firstline."," . a:lastline . "w! ".fnameescape(v:cmdarg)." ".fnameescape(tmpfile)
endif

if curbufname == ""
" if the file is [No Name], and one attempts to Nwrite it, the buffer takes
" on the temporary file's name. Deletion of the temporary file during
" cleanup then causes an error message.
Ofile!
endif

" While choice loop: {{{3
while icoice <= a:0

" Process arguments: {{{4
" attempt to repeat with previous host-file-etc

```

```

if exists("b:netrw_lastfile") && a:0 == 0
"  call Decho("using b:netrw_lastfile<" . b:netrw_lastfile . ">")
let choice = b:netrw_lastfile
let icoice= icoice + 1
else
exe "let choice= a:" . icoice

" Reconstruct Choice if choice starts with ""
if match(choice,"?") == 0
echomsg 'NetWrite Usage:'
echomsg ':Nwrite machine:path          uses rcp'
echomsg ':Nwrite "machine path"        uses ftp with <.netrc>'
echomsg ':Nwrite "machine id password path"  uses ftp'
echomsg ':Nwrite dav://[user@]machine/path    uses cadaver'
echomsg ':Nwrite fetch://[user@]machine/path    uses fetch'
echomsg ':Nwrite ftp://machine[#port]/path    uses ftp (autodetects <.netrc>)'
echomsg ':Nwrite rcp://machine/path          uses rcp'
echomsg ':Nwrite rsync://[user@]machine/path    uses rsync'
echomsg ':Nwrite scp://[user@]machine[[:#]port]/path uses scp'
echomsg ':Nwrite sftp://[user@]machine/path    uses sftp'
sleep 4
break

elseif match(choice,"^\") != -1
if match(choice,"\$") != -1
" case "..."
let choice=strpart(choice,1,strlen(choice)-2)
else
" case "... .. ..."
let choice = strpart(choice,1,strlen(choice)-1)
let wholechoice = ""

while match(choice,"\$") == -1
let wholechoice= wholechoice . " " . choice
let icoice = icoice + 1
if choice > a:0
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"Unbalanced string in filename ". wholechoice . """,13)
endif
"  call Dret("netrw#NetWrite")
return
endif
let choice= a:{icoice}
endwhile
let choice= strpart(wholechoice,1,strlen(wholechoice)-1) . " " . strpart(choice,0,strlen(choice)-1)
endif
endif
endif
endif

```

```

let icoice= icoice + 1
" call Decho("choice<" . choice . "> icoice=".icoice)

" Determine method of write (ftp, rcp, etc) {{{4
call s:NetrwMethod(choice)
if !exists("b:netrw_method") || b:netrw_method < 0
" call Dfunc("netrw#NetWrite : unsupported method")
return
endif

" =====
" Perform Protocol-Based Write {{{4
" =====
if exists("g:netrw_silent") && g:netrw_silent == 0 && &ch >= 1
echo "(netrw) Processing your write request..."
" call Decho("(netrw) Processing your write request...")
endif

".....
" rcp: NetWrite Method #1 {{{4
if b:netrw_method == 1
" call Decho("write via rcp (method #1)")
if s:netrw_has_nt_rcp == 1
if exists("g:netrw_uid") && ( g:netrw_uid != "" )
let uid_machine = g:netrw_machine .'.' g:netrw_uid
else
let uid_machine = g:netrw_machine .'.' $USERNAME
endif
else
if exists("g:netrw_uid") && ( g:netrw_uid != "" )
let uid_machine = g:netrw_uid .'@'. g:netrw_machine
else
let uid_machine = g:netrw_machine
endif
endif
" call Decho("executing: !" .g:netrw_rcp_cmd." " .s:netrw_rcpmode." " .shellescape(tmpfile,1)."
.shellescape(uid_machine)." :".b:netrw_fname,1))
exe s:netrw_silentxfer."!" .g:netrw_rcp_cmd." " .s:netrw_rcpmode." " .shellescape(tmpfile,1)."
.shellescape(uid_machine)." :".b:netrw_fname,1)
let b:netrw_lastfile = choice

".....
" ftp + <.netrc>: NetWrite Method #2 {{{4
elseif b:netrw_method == 2
" call Decho("write via ftp+.netrc (method #2)")
let netrw_fname= b:netrw_fname
new
" call Decho("filter input window#" .winnr())

```

```

setlocal ff=unix
put =g:netrw_ftpmode
" call Decho("filter input: ".getline('$'))
if exists("g:netrw_ftpextracmd")
  put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline("$"))
endif
call setline(line("$")+1,'put ".tmpfile."' ".netrw_fname.")
" call Decho("filter input: ".getline("$"))
if exists("g:netrw_port") && g:netrw_port != ""
" call Decho("executing: %!" .g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1))
  exe s:netrw_silentxfer.%!" .g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1)
else
" call Decho("filter input window#".winnr())
" call Decho("executing: %!" .g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1))
  exe s:netrw_silentxfer.%!" .g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)
endif
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
if getline(1) !~ "^$"
  if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,getline(1),14)
  endif
  let mod=1
endif
bd!
let b:netrw_lastfile = choice

".....
" ftp + machine, id, passwd, filename: NetWrite Method #3 {{{4
elseif b:netrw_method == 3
" Construct execution string (four lines) which will be passed through filter
" call Decho("read via ftp+mipf (method #3)")
let netrw_fname= b:netrw_fname
new
setlocal ff=unix
if exists("g:netrw_port") && g:netrw_port != ""
  put ='open '.g:netrw_machine.' '.g:netrw_port
" call Decho("filter input: ".getline('.'))
else
  put ='open '.g:netrw_machine
" call Decho("filter input: ".getline('.'))
endif
if exists("g:netrw_ftp") && g:netrw_ftp == 1
  put =g:netrw_uid
" call Decho("filter input: ".getline('.'))
  put =\".s:netrw_passwd.\""

```

```

" call Decho("filter input: ".getline('.'))
else
  put ='user \'".g:netrw_uid.'"\'".s:netrw_passwd.'"\'"'
" call Decho("filter input: ".getline('.'))
endif
put ='put \'".tmpfile.'"\'".netrw_fname.'"\'"'
" call Decho("filter input: ".getline('.'))
" save choice/id/password for future use
let b:netrw_lastfile = choice

" perform ftp:
" -i : turns off interactive prompting from ftp
" -n unix : DON'T use <.netrc>, even though it exists
" -n win32: quit being obnoxious about password
norm! 1Gdd
" call Decho("executing: %!"'.g:netrw_ftp_cmd.'" -i -n")
exe s:netrw_silentxfer.'"%!"'.g:netrw_ftp_cmd.'" -i -n"
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
if getline(1) !~ "^$"
  if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,getline(1),15)
  endif
  let mod=1
endif
bd!

".....
" scp: NetWrite Method #4 {{{4
elseif b:netrw_method == 4
" call Decho("write via scp (method #4)")
if exists("g:netrw_port") && g:netrw_port != ""
  let useport= " ".g:netrw_scpport." ".fnameescape(g:netrw_port)
else
  let useport= ""
endif
" call Decho("exe ".s:netrw_silentxfer.'"!"'.g:netrw_scp_cmd.useport.'" ".shellescape(tmpfile,1)."
".shellescape(g:netrw_machine.":".b:netrw_fname,1))
exe s:netrw_silentxfer.'"!"'.g:netrw_scp_cmd.useport.'" ".shellescape(tmpfile,1)."
".shellescape(g:netrw_machine.":".b:netrw_fname,1)
let b:netrw_lastfile = choice

".....
" http: NetWrite Method #5 {{{4
elseif b:netrw_method == 5
" call Decho("write via http (method #5)")
if !exists("g:netrw_quiet")
  call netrw#ErrorMsg(s:ERROR,"currently <netrw.vim> does not support writing using http:",16)
endif

```

```

".....
" dav: NetWrite Method #6 (cadaver) {{{4
elseif b:netrw_method == 6
" call Decho("write via cadaver (method #6)")

" Construct execution string (four lines) which will be passed through filter
let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
new
setlocal ff=unix
if exists("g:netrw_port") && g:netrw_port != ""
put ='open 'g:netrw_machine.' 'g:netrw_port
else
put ='open 'g:netrw_machine
endif
if exists("g:netrw_uid") && exists("s:netrw_passwd")
put ='user 'g:netrw_uid.' 's:netrw_passwd
endif
put ='put 'tmpfile.' 'netrw_fname

" perform cadaver operation:
norm! lGdd
" call Decho("executing: %!"g:netrw_dav_cmd)
exe s:netrw_silentxfer."%!"g:netrw_dav_cmd
bd!
let b:netrw_lastfile = choice

".....
" rsync: NetWrite Method #7 {{{4
elseif b:netrw_method == 7
" call Decho("write via rsync (method #7)")
" call Decho("executing: !"g:netrw_rsync_cmd." ".shellescape(tmpfile,1)."
.shellescape(g:netrw_machine." ".b:netrw_fname,1))
exe s:netrw_silentxfer."!"g:netrw_rsync_cmd." ".shellescape(tmpfile,1)."
.shellescape(g:netrw_machine." ".b:netrw_fname,1)
let b:netrw_lastfile = choice

".....
" sftp: NetWrite Method #9 {{{4
elseif b:netrw_method == 9
" call Decho("read via sftp (method #9)")
let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
if exists("g:netrw_uid") && ( g:netrw_uid != "" )
let uid_machine = g:netrw_uid .'@'. g:netrw_machine
else
let uid_machine = g:netrw_machine
endif
new

```

```

setlocal ff=unix
put ='put \'"'.escape(tmpfile,\'').\'" '.netrw_fname
" call Decho("filter input: ".getline('.'))
norm! 1Gdd
" call Decho("executing: %!"'.g:netrw_sftp_cmd.''.shellescape(uid_machine,1))
exe s:netrw_silentxfer."%!"'.g:netrw_sftp_cmd.''.shellescape(uid_machine,1)
bd!
let b:netrw_lastfile= choice

".....
" Complain {{{4
else
call netrw#ErrorMsg(s:WARNING,"unable to comply with your request<" . choice . ">",17)
endif
endwhile

" Cleanup: {{{3
" call Decho("cleanup")
if s:FileReadable(tmpfile)
" call Decho("tmpfile<".tmpfile."> readable, will now delete it")
call s:NetrwDelete(tmpfile)
endif
call s:NetrwOptionRestore("w:")

if a:firstline == 1 && a:lastline == line("$")
" restore modifiability; usually equivalent to set nomod
let &mod= mod
endif

" call Dret("netrw#NetWrite")
endfun

" -----
" netrw#NetSource: source a remotely hosted vim script {{{2
" uses NetRead to get a copy of the file into a temporarily file,
" then sources that file,
" then removes that file.
fun! netrw#NetSource(...)
" call Dfunc("netrw#NetSource() a:0=" . a:0)
if a:0 > 0 && a:1 == '?'
" give help
echomsg 'NetSource Usage:'
echomsg ':Nsource dav://machine[:port]/path      uses cadaver'
echomsg ':Nsource fetch://machine/path            uses fetch'
echomsg ':Nsource ftp://[user@]machine[:port]/path  uses ftp  autodetects <.netrc>'
echomsg ':Nsource http://[user@]machine/path       uses http  wget'
echomsg ':Nsource rcp://[user@]machine/path         uses rcp'
echomsg ':Nsource rsync://machine[:port]/path       uses rsync'

```

```

echomsg ':Nsource scp://[user@]machine[[:#]port]/path uses scp'
echomsg ':Nsource sftp://[user@]machine[[:#]port]/path uses sftp'
sleep 4
else
let i= 1
while i <= a:0
call netrw#NetRead(3,a:{i})
" call Decho("(netrw#NetSource) s:netread_tmpfile<".s:netrw_tmpfile.">")
if s:FileReadable(s:netrw_tmpfile)
" call Decho("(netrw#NetSource) exe so ".fnameescape(s:netrw_tmpfile))
exe "so ".fnameescape(s:netrw_tmpfile)
" call Decho("(netrw#NetSource) delete(".s:netrw_tmpfile.")")
call delete(s:netrw_tmpfile)
unlet s:netrw_tmpfile
else
call netrw#ErrorMsg(s:ERROR,"unable to source <".a:{i}.">!",48)
endif
let i= i + 1
endwhile
endif
" call Dret("netrw#NetSource")
endfun

" =====
" s:NetrwGetFile: Function to read temporary file "tfile" with command "readcmd". {{{2
" readcmd == %r : replace buffer with newly read file
" == Or : read file at top of buffer
" == r : read file after current line
" == t : leave file in temporary form (ie. don't read into buffer)
fun! s:NetrwGetFile(readcmd, tfile, method)
" call Dfunc("NetrwGetFile(readcmd<".a:readcmd.">,tfile<".a:tfile."> method<".a:method.">)")

" readcmd=='t': simply do nothing
if a:readcmd == 't'
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("NetrwGetFile : skip read of <".a:tfile.">")
return
endif

" get name of remote filename (ie. url and all)
let rfile= bufname("%")
" call Decho("rfile<".rfile.">")

if exists("*NetReadFixup")
" for the use of NetReadFixup (not otherwise used internally)
let line2= line("$")
endif

```

```

if a:readcmd[0] == '%'
" get file into buffer
" call Decho("get file into buffer")

" rename the current buffer to the temp file (ie. tfile)
if g:netrw_cygwin
let tfile= substitute(a:tfile,'/cygdrive/^(.)',\1:'.')
else
let tfile= a:tfile
endif
" call Decho("exe silent! keepalt file ".fnameescape(tfile))
exe "silent! keepalt file ".fnameescape(tfile)

" edit temporary file (ie. read the temporary file in)
if rfile =~ /\.zip$'
" call Decho("handling remote zip file with zip#Browse(tfile<".tfile.">")
call zip#Browse(tfile)
elseif rfile =~ /\.tar$'
" call Decho("handling remote tar file with tar#Browse(tfile<".tfile.">")
call tar#Browse(tfile)
elseif rfile =~ /\.tar\.gz'
" call Decho("handling remote gzip-compressed tar file")
call tar#Browse(tfile)
elseif rfile =~ /\.tar\.bz2'
" call Decho("handling remote bz2-compressed tar file")
call tar#Browse(tfile)
else
" call Decho("edit temporary file")
e!
endif

" rename buffer back to remote filename
" call Decho("exe silent! keepalt file ".fnameescape(rfile))
exe "silent! keepalt file ".fnameescape(rfile)
if a:method == 5
set ft=html
else
filetype detect
endif
" call Dredir("renamed buffer back to remote filename<".rfile."> : expand(%<".expand("%")<".expand("% ").">","ls!")
let line1 = 1
let line2 = line("$")

elseif s:FileReadable(a:tfile)
" read file after current line
" call Decho("read file<".a:tfile."> after current line")
let curline = line(".")
let lastline= line("$")

```

```

" call Decho("exe<" .a:readcmd." ".fnameescape(v:cmdarg)." ".fnameescape(a:tfile)."> line#".curline)
exe a:readcmd." ".fnameescape(v:cmdarg)." ".fnameescape(a:tfile)
let line1= curline + 1
let line2= line("$") - lastline + 1

else
" not readable
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Decho("tfile<" .a:tfile."> not readable")
call netrw#ErrorMsg(s:WARNING,"file <" .a:tfile."> not readable",9)
" call Dret("NetrwGetFile : tfile<" .a:tfile."> not readable")
return
endif

" User-provided (ie. optional) fix-it-up command
if exists("*NetReadFixup")
" call Decho("calling NetReadFixup(method<" .a:method."> line1=".line1." line2=" .line2.")")
call NetReadFixup(a:method, line1, line2)
" else " Decho
" call Decho("NetReadFixup() not called, doesn't exist (line1=".line1." line2=" .line2.")")
endif

if has("gui") && has("menu") && has("gui_running") && &go =~ 'm'
" update the Buffers menu
call s:UpdateBuffersMenu()
endif

" call Decho("readcmd<" .a:readcmd."> cmdarg<" .v:cmdarg."> tfile<" .a:tfile."> readable=" .s:FileReadable(a:tfile))

" make sure file is being displayed
" redraw!

" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("NetrwGetFile")
endfun

" -----
" s:NetrwMethod: determine method of transfer {{{2
" Input:
" choice = url [protocol:]/[userid@]hostname[:port]/[path-to-file]
" Output:
" b:netrw_method= 1: rcp
"           2: ftp + <.netrc>
"           3: ftp + machine, id, password, and [path]filename
"           4: scp
"           5: http (wget)
"           6: dav
"           7: rsync

```

```

"      8: fetch
"      9: sftp
" g:netrw_machine= hostname
" b:netrw_fname = filename
" g:netrw_port = optional port number (for ftp)
" g:netrw_choice = copy of input url (choice)
fun! s:NetrwMethod(choice)
" call Dfunc("NetrwMethod(a:choice<".a:choice.">")

" record current g:netrw_machine, if any
" curmachine used if protocol == ftp and no .netrc
if exists("g:netrw_machine")
  let curmachine= g:netrw_machine
" call Decho("curmachine<".curmachine.">")
else
  let curmachine= "N O T A HOST"
endif

" initialization
let b:netrw_method = 0
let g:netrw_machine = ""
let b:netrw_fname = ""
let g:netrw_port = ""
let g:netrw_choice = a:choice

" Patterns:
" mipf : a:machine a:id password filename Use ftp
" mf : a:machine filename Use ftp + <.netrc> or g:netrw_uid s:netrw_passwd
" ftpurm : ftp://[user@]host[[:#:]]port/filename Use ftp + <.netrc> or g:netrw_uid s:netrw_passwd
" rcpurm : rcp://[user@]host/filename Use rcp
" rcphf : [user@]host:filename Use rcp
" scpurm : scp://[user@]host[[:#:]]port/filename Use scp
" httpurm : http://[user@]host/filename Use wget
" davurm : dav[s]://host[:port]/path Use cadaver/curl
" rsyncurm : rsync://host[:port]/path Use rsync
" fetchurm : fetch://[user@]host[:http]/filename Use fetch (defaults to ftp, override for http)
" sftpurm : sftp://[user@]host/filename Use scp
let mipf = '^(\S+)\s+(\S+)\s+(\S+)\s+(\S+)$'
let mf = '^(\S+)\s+(\S+)$'
let ftpurm = '^ftp://\(\([^\@]\{-}\)\@\)=\(\([^\#:]\{-}\)\)\(\([#:]d\+)\)=\(\(.*\)$'
let rcpurm = '^rcp://%\(\([^\@]\{-}\)\@\)=\(\([^\]\{-}\)\)\(\(.*\)$'
let rcphf = '^(\([h\w*]\@\)=\(\([h\w*]\)\)\(\([^\@]\{-}\)\)$'
let scpurm = '^scp://\(\([^\#:]\{-}\)\)\(\([#:]d\+)\)=\(\(.*\)$'
let httpurm = '^http://\(\([^\]\{-}\)\)\(\(.*\)$'
let davurm = '^davs\=://\(\([^\]\{-}\)\)\(\(.*\)\)\(\([-_~[:alnum:]]\+)\)$'
let rsyncurm = '^rsync://\(\([^\]\{-}\)\)\(\(.*\)$'
let fetchurm = '^fetch://\(\([^\@]\{-}\)\@\)=\(\([^\#:]\{-}\)\)\(\(:http\)\)=\(\(.*\)$'
let sftpurm = '^sftp://\(\([^\]\{-}\)\)\(\(.*\)$'

```

```

" call Decho("determine method:")
" Determine Method
" rcp://user@hostname/...path-to-file
if match(a:choice,rcpurn) == 0
" call Decho("rcp://...")
let b:netrw_method = 1
let userid      = substitute(a:choice,rcpurn,'\1',"")
let g:netrw_machine = substitute(a:choice,rcpurn,'\2',"")
let b:netrw_fname = substitute(a:choice,rcpurn,'\3',"")
if userid != ""
let g:netrw_uid= userid
endif

" scp://user@hostname/...path-to-file
elseif match(a:choice,scpurn) == 0
" call Decho("scp://...")
let b:netrw_method = 4
let g:netrw_machine = substitute(a:choice,scpurn,'\1',"")
let g:netrw_port    = substitute(a:choice,scpurn,'\2',"")
let b:netrw_fname  = substitute(a:choice,scpurn,'\3',"")

" http://user@hostname/...path-to-file
elseif match(a:choice,httpurn) == 0
" call Decho("http://...")
let b:netrw_method = 5
let g:netrw_machine= substitute(a:choice,httpurn,'\1',"")
let b:netrw_fname  = substitute(a:choice,httpurn,'\2',"")

" dav://hostname[:port]/..path-to-file..
elseif match(a:choice,davurn) == 0
" call Decho("dav://...")
let b:netrw_method= 6
if a:choice =~ '^s'
let g:netrw_machine= 'https://'.substitute(a:choice,davurn,'\1\2',"")
else
let g:netrw_machine= 'http://'.substitute(a:choice,davurn,'\1\2',"")
endif
let b:netrw_fname = substitute(a:choice,davurn,'\3',"")

" rsync://user@hostname/...path-to-file
elseif match(a:choice,rsyncurn) == 0
" call Decho("rsync://...")
let b:netrw_method = 7
let g:netrw_machine= substitute(a:choice,rsyncurn,'\1',"")
let b:netrw_fname  = substitute(a:choice,rsyncurn,'\2',"")

" ftp://[user@]hostname[[:#]port]/...path-to-file

```

```

elseif match(a:choice,ftpurm) == 0
" call Decho("ftp://...")
let userid = substitute(a:choice,ftpurm,"\2'")
let g:netrw_machine= substitute(a:choice,ftpurm,"\3'")
let g:netrw_port = substitute(a:choice,ftpurm,"\4'")
let b:netrw_fname = substitute(a:choice,ftpurm,"\5'")
" call Decho("g:netrw_machine<"g:netrw_machine.">")
if userid != ""
let g:netrw_uid= userid
endif
if exists("s:netrw_passwd") && curmachine != g:netrw_machine
" if there's a change in hostname, require password re-entry
unlet s:netrw_passwd
endif
if exists("g:netrw_uid") && exists("s:netrw_passwd")
let b:netrw_method = 3
else
if s:FileReadable(expand("$HOME/.netrc")) && !g:netrw_ignorenetrc
let b:netrw_method= 2
else
if !exists("g:netrw_uid") || g:netrw_uid == ""
call NetUserPass()
elseif !exists("s:netrw_passwd") || s:netrw_passwd == ""
call NetUserPass(g:netrw_uid)
" else just use current g:netrw_uid and s:netrw_passwd
endif
let b:netrw_method= 3
endif
endif

```

```

elseif match(a:choice,fetchurm) == 0
" call Decho("fetch://...")
let b:netrw_method = 8
let g:netrw_userid = substitute(a:choice,fetchurm,"\2'")
let g:netrw_machine= substitute(a:choice,fetchurm,"\3'")
let b:netrw_option = substitute(a:choice,fetchurm,"\4'")
let b:netrw_fname = substitute(a:choice,fetchurm,"\5'")

```

" Issue an ftp : "machine id password [path/]filename"

```
elseif match(a:choice,mipf) == 0
```

```

" call Decho("(ftp) host id pass file")
let b:netrw_method = 3
let g:netrw_machine = substitute(a:choice,mipf,"\1'")
let g:netrw_uid = substitute(a:choice,mipf,"\2'")
let s:netrw_passwd = substitute(a:choice,mipf,"\3'")
let b:netrw_fname = substitute(a:choice,mipf,"\4'")

```

" Issue an ftp: "hostname [path/]filename"

```

elseif match(a:choice,mf) == 0
" call Decho("(ftp) host file")
if exists("g:netrw_uid") && exists("s:netrw_passwd")
let b:netrw_method = 3
let g:netrw_machine = substitute(a:choice,mf,'\1',"")
let b:netrw_fname = substitute(a:choice,mf,'\2',"")

elseif s:FileReadable(expand("$HOME/.netrc"))
let b:netrw_method = 2
let g:netrw_machine = substitute(a:choice,mf,'\1',"")
let b:netrw_fname = substitute(a:choice,mf,'\2',"")
endif

" sftp://user@hostname/...path-to-file
elseif match(a:choice,sftpurm) == 0
" call Decho("sftp://...")
let b:netrw_method = 9
let g:netrw_machine= substitute(a:choice,sftpurm,'\1',"")
let b:netrw_fname = substitute(a:choice,sftpurm,'\2',"")

" Issue an rcp: hostname:filename" (this one should be last)
elseif match(a:choice,rcphf) == 0
" call Decho("(rcp) [user@]host:file) rcphf<".rcphf.">")
let b:netrw_method = 1
let userid = substitute(a:choice,rcphf,'\2',"")
let g:netrw_machine = substitute(a:choice,rcphf,'\3',"")
let b:netrw_fname = substitute(a:choice,rcphf,'\4',"")
" call Decho("\1<'.substitute(a:choice,rcphf,'\1',"").">")
" call Decho("\2<'.substitute(a:choice,rcphf,'\2',"").">")
" call Decho("\3<'.substitute(a:choice,rcphf,'\3',"").">")
" call Decho("\4<'.substitute(a:choice,rcphf,'\4',"").">")
if userid != ""
let g:netrw_uid= userid
endif

else
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:WARNING,"cannot determine method (format:
protocol://[user@]hostname[:port]/[path])",45)
endif
let b:netrw_method = -1
endif

" remove any leading [#] from port number
if g:netrw_port != ""
let g:netrw_port = substitute(g:netrw_port,'[#:]\+',";")
endif

```

```

" call Decho("a:choice <".a:choice.">")
" call Decho("b:netrw_method <".b:netrw_method.">")
" call Decho("g:netrw_machine<".g:netrw_machine.">")
" call Decho("g:netrw_port <".g:netrw_port.">")
" if exists("g:netrw_uid") "Decho
" call Decho("g:netrw_uid <".g:netrw_uid.">")
" endif "Decho
" if exists("s:netrw_passwd") "Decho
" call Decho("s:netrw_passwd <".s:netrw_passwd.">")
" endif "Decho
" call Decho("b:netrw_fname <".b:netrw_fname.">")
" call Dret("NetrwMethod : b:netrw_method="b:netrw_method)
endfun

" -----
" NetReadFixup: this sort of function is typically written by the user {{{2
" to handle extra junk that their system's ftp dumps
" into the transfer. This function is provided as an
" example and as a fix for a Windows 95 problem: in my
" experience, win95's ftp always dumped four blank lines
" at the end of the transfer.
if has("win95") && exists("g:netrw_win95ftp") && g:netrw_win95ftp
fun! NetReadFixup(method, line1, line2)
" call Dfunc("NetReadFixup(method<".a:method."> line1="a:line1." line2="a:line2.")")

" sanity checks -- attempt to convert inputs to integers
let method = a:method + 0
let line1 = a:line1 + 0
let line2 = a:line2 + 0
if type(method) != 0 || type(line1) != 0 || type(line2) != 0 || method < 0 || line1 <= 0 || line2 <= 0
" call Dret("NetReadFixup")
return
endif

if method == 3 " ftp (no <.netrc>)
let fourblanklines= line2 - 3
if fourblanklines >= line1
exe "silent ".fourblanklines.", ".line2."g/^\s*$/d"
endif
endif

" call Dret("NetReadFixup")
endfun
endif

" -----
" NetUserPass: set username and password for subsequent ftp transfer {{{2
" Usage: :call NetUserPass() -- will prompt for userid and password

```

```

" :call NetUserPass("uid") -- will prompt for password
" :call NetUserPass("uid","password") -- sets global userid and password
fun! NetUserPass(...)

" get/set userid
if a:0 == 0
" call Dfunc("NetUserPass(a:0<"a:0.">)")
if !exists("g:netrw_uid") || g:netrw_uid == ""
" via prompt
let g:netrw_uid= input("Enter username: ")
endif
else " from command line
" call Dfunc("NetUserPass(a:1<"a:1.">) {")
let g:netrw_uid= a:1
endif

" get password
if a:0 <= 1 " via prompt
" call Decho("a:0="a:0." case <=1:")
let s:netrw_passwd= inputsecret("Enter Password: ")
else " from command line
" call Decho("a:0="a:0." case >1: a:2<"a:2.">")
let s:netrw_passwd=a:2
endif

" call Dret("NetUserPass")
endfun

" =====
" Shared Browsing Support: {{{1
" =====

" -----
" s:BrowserMaps: {{{2
fun! s:BrowserMaps(islocal)
" call Dfunc("s:BrowserMaps(islocal="a:islocal.") b:netrw_curdir<"b:netrw_curdir.">")
if a:islocal
" call Decho("make local maps")
nnoremap <buffer> <silent> <cr> :call
netrw#LocalBrowseCheck(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord()))<cr>
nnoremap <buffer> <silent> - :exe "norm! 0"<bar>call
netrw#LocalBrowseCheck(<SID>NetrwBrowseChgDir(1,'./'))<cr>
nnoremap <buffer> <silent> a :call <SID>NetrwHide(1)<cr>
nnoremap <buffer> <silent> mb :<c-u>call <SID>NetrwBookHistHandler(0,b:netrw_curdir)<cr>
nnoremap <buffer> <silent> mc :<c-u>call <SID>NetrwMarkFileCopy(1)<cr>
nnoremap <buffer> <silent> md :<c-u>call <SID>NetrwMarkFileDiff(1)<cr>
nnoremap <buffer> <silent> me :<c-u>call <SID>NetrwMarkFileEdit(1)<cr>
nnoremap <buffer> <silent> mf :<c-u>call <SID>NetrwMarkFile(1,<SID>NetrwGetWord())<cr>

```

```

nnoremap <buffer> <silent> mg :<c-u>call <SID>NetrwMarkFileGrep(1)<cr>
nnoremap <buffer> <silent> mh :<c-u>call <SID>NetrwMarkHideSfx(1)<cr>
nnoremap <buffer> <silent> mm :<c-u>call <SID>NetrwMarkFileMove(1)<cr>
nnoremap <buffer> <silent> mp :<c-u>call <SID>NetrwMarkFilePrint(1)<cr>
nnoremap <buffer> <silent> mr :<c-u>call <SID>NetrwMarkFileRegexp(1)<cr>
nnoremap <buffer> <silent> ms :<c-u>call <SID>NetrwMarkFileSource(1)<cr>
nnoremap <buffer> <silent> mT :<c-u>call <SID>NetrwMarkFileTag(1)<cr>
nnoremap <buffer> <silent> mt :<c-u>call <SID>NetrwMarkFileTgt(1)<cr>
nnoremap <buffer> <silent> mu :<c-u>call <SID>NetrwUnMarkFile(1)<cr>
nnoremap <buffer> <silent> mx :<c-u>call <SID>NetrwMarkFileExe(1)<cr>
nnoremap <buffer> <silent> mz :<c-u>call <SID>NetrwMarkFileCompress(1)<cr>
nnoremap <buffer> <silent> gb :<c-u>call <SID>NetrwBookHistHandler(1,b:netrw_curdir)<cr>
nnoremap <buffer> <silent> gh :<c-u>call <SID>NetrwHidden(1)<cr>
nnoremap <buffer> <silent> c :exe "keepjumps lcd ".fnameescape(b:netrw_curdir)<cr>
nnoremap <buffer> <silent> C :let g:netrw_chgwin= winnr()<cr>
nnoremap <buffer> <silent> d :call <SID>NetrwMakeDir("")<cr>
nnoremap <buffer> <silent> i :call <SID>NetrwListStyle(1)<cr>
nnoremap <buffer> <silent> o :call <SID>NetrwSplit(3)<cr>
nnoremap <buffer> <silent> O :call <SID>NetrwObtain(1)<cr>
nnoremap <buffer> <silent> p :call
<SID>NetrwPreview(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord(),1))<cr>
nnoremap <buffer> <silent> P :call <SID>NetrwPrevWinOpen(1)<cr>
nnoremap <buffer> <silent> qb :<c-u>call <SID>NetrwBookHistHandler(2,b:netrw_curdir)<cr>
nnoremap <buffer> <silent> mB :<c-u>call <SID>NetrwBookHistHandler(6,b:netrw_curdir)<cr>
nnoremap <buffer> <silent> qf :<c-u>call <SID>NetrwFileInfo(1,<SID>NetrwGetWord())<cr>
nnoremap <buffer> <silent> r :let g:netrw_sort_direction= (g:netrw_sort_direction =~ 'n')? 'r' : 'n'<bar>exe "norm!
0"<bar>call <SID>NetrwRefresh(1,<SID>NetrwBrowseChgDir(1,'/'))<cr>
nnoremap <buffer> <silent> s :call <SID>NetrwSortStyle(1)<cr>
nnoremap <buffer> <silent> S :call <SID>NetSortSequence(1)<cr>
nnoremap <buffer> <silent> t :call <SID>NetrwSplit(4)<cr>
nnoremap <buffer> <silent> u :<c-u>call <SID>NetrwBookHistHandler(4,expand("%"))<cr>
nnoremap <buffer> <silent> U :<c-u>call <SID>NetrwBookHistHandler(5,expand("%"))<cr>
nnoremap <buffer> <silent> v :call <SID>NetrwSplit(5)<cr>
nnoremap <buffer> <silent> x :call
netrw#NetrwBrowseX(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord(),0,0)"<cr>
nnoremap <buffer> <silent> % :call <SID>NetrwOpenFile(1)<cr>
if !hasmapto('<Plug>NetrwHideEdit')
  nmap <buffer> <unique> <c-h> <Plug>NetrwHideEdit
endif
nnoremap <buffer> <silent> <Plug>NetrwHideEdit :call <SID>NetrwHideEdit(1)<cr>
if !hasmapto('<Plug>NetrwRefresh')
  nmap <buffer> <unique> <c-l> <Plug>NetrwRefresh
endif
nnoremap <buffer> <silent> <Plug>NetrwRefresh :call
<SID>NetrwRefresh(1,<SID>NetrwBrowseChgDir(1,'/'))<cr>
if s:didstarstar || !mapcheck("<s-down>", "n")
  nnoremap <buffer> <silent> <s-down> :Nexplore<cr>
endif

```

```

if s:didstarstar || !mapcheck("<s-up>","n")
  noremap <buffer> <silent> <s-up> :Pexplore<cr>
endif
let mapsafecurdir = escape(b:netrw_curdir, s:netrw_map_escape)
if g:netrw_mousemaps == 1
  noremap <buffer> <silent> <leftmouse> <leftmouse>:call <SID>NetrwLeftmouse(1)<cr>
  noremap <buffer> <silent> <middlemouse> <leftmouse>:call <SID>NetrwPrevWinOpen(1)<cr>
  noremap <buffer> <silent> <s-leftmouse> <leftmouse>:call
<SID>NetrwMarkFile(1,<SID>NetrwGetWord())<cr>
  exe 'noremap <buffer> <silent> <rightmouse> <leftmouse>:call <SID>NetrwLocalRm("'" .mapsafecurdir ."'<cr>'
  exe 'vnoremap <buffer> <silent> <rightmouse> <leftmouse>:call <SID>NetrwLocalRm("'" .mapsafecurdir ."'<cr>'
endif
exe 'noremap <buffer> <silent> <del> :call <SID>NetrwLocalRm("'" .mapsafecurdir ."'<cr>'
exe 'vnoremap <buffer> <silent> <del> :call <SID>NetrwLocalRm("'" .mapsafecurdir ."'<cr>'
exe 'noremap <buffer> <silent> D :call <SID>NetrwLocalRm("'" .mapsafecurdir ."'<cr>'
exe 'vnoremap <buffer> <silent> D :call <SID>NetrwLocalRm("'" .mapsafecurdir ."'<cr>'
exe 'noremap <buffer> <silent> R :call <SID>NetrwLocalRename("'" .mapsafecurdir ."'<cr>'
exe 'vnoremap <buffer> <silent> R :call <SID>NetrwLocalRename("'" .mapsafecurdir ."'<cr>'
exe 'noremap <buffer> <silent> <Leader>m :call <SID>NetrwMakeDir("'" .mapsafecurdir ."'<cr>'
noremap <buffer> <F1> :he netrw-quickhelp<cr>

else " remote
" call Decho("make remote maps")
call s:RemotePathAnalysis(b:netrw_curdir)
noremap <buffer> <silent> <cr> :call
<SID>NetrwBrowse(0,<SID>NetrwBrowseChgDir(0,<SID>NetrwGetWord()))<cr>
noremap <buffer> <silent> <c-l> :call <SID>NetrwRefresh(0,<SID>NetrwBrowseChgDir(0,'./'))<cr>
noremap <buffer> <silent> - :exe "norm! 0"<bar>call
<SID>NetrwBrowse(0,<SID>NetrwBrowseChgDir(0,'./'))<cr>
noremap <buffer> <silent> a :call <SID>NetrwHide(0)<cr>
noremap <buffer> <silent> mb :<c-u>call <SID>NetrwBookHistHandler(0,b:netrw_curdir)<cr>
noremap <buffer> <silent> mc :<c-u>call <SID>NetrwMarkFileCopy(0)<cr>
noremap <buffer> <silent> md :<c-u>call <SID>NetrwMarkFileDiff(0)<cr>
noremap <buffer> <silent> me :<c-u>call <SID>NetrwMarkFileEdit(0)<cr>
noremap <buffer> <silent> mf :<c-u>call <SID>NetrwMarkFile(0,<SID>NetrwGetWord())<cr>
noremap <buffer> <silent> mg :<c-u>call <SID>NetrwMarkFileGrep(0)<cr>
noremap <buffer> <silent> mh :<c-u>call <SID>NetrwMarkHideSfx(0)<cr>
noremap <buffer> <silent> mm :<c-u>call <SID>NetrwMarkFileMove(0)<cr>
noremap <buffer> <silent> mp :<c-u>call <SID>NetrwMarkFilePrint(0)<cr>
noremap <buffer> <silent> mr :<c-u>call <SID>NetrwMarkFileRegexp(0)<cr>
noremap <buffer> <silent> ms :<c-u>call <SID>NetrwMarkFileSource(0)<cr>
noremap <buffer> <silent> mT :<c-u>call <SID>NetrwMarkFileTag(0)<cr>
noremap <buffer> <silent> mt :<c-u>call <SID>NetrwMarkFileTgt(0)<cr>
noremap <buffer> <silent> mu :<c-u>call <SID>NetrwUnMarkFile(0)<cr>
noremap <buffer> <silent> mx :<c-u>call <SID>NetrwMarkFileExe(0)<cr>
noremap <buffer> <silent> mz :<c-u>call <SID>NetrwMarkFileCompress(0)<cr>
noremap <buffer> <silent> gb :<c-u>call <SID>NetrwBookHistHandler(1,b:netrw_cur)<cr>
noremap <buffer> <silent> gh :<c-u>call <SID>NetrwHidden(0)<cr>

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nnoemap <buffer> <silent> C :let g:netrw_chgwin= winnr()<cr>
nnoemap <buffer> <silent> i :call <SID>NetrwListStyle(0)<cr>
nnoemap <buffer> <silent> o :call <SID>NetrwSplit(0)<cr>
nnoemap <buffer> <silent> O :call <SID>NetrwObtain(0)<cr>
nnoemap <buffer> <silent> p :call
<SID>NetrwPreview(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord(),1))<cr>
nnoemap <buffer> <silent> P :call <SID>NetrwPrevWinOpen(0)<cr>
nnoemap <buffer> <silent> qb :<c-u>call <SID>NetrwBookHistHandler(2,b:netrw_curdir)<cr>
nnoemap <buffer> <silent> mB :<c-u>call <SID>NetrwBookHistHandler(6,b:netrw_curdir)<cr>
nnoemap <buffer> <silent> qf :<c-u>call <SID>NetrwFileInfo(0,<SID>NetrwGetWord())<cr>
nnoemap <buffer> <silent> r :let g:netrw_sort_direction= (g:netrw_sort_direction =~ 'n')? 'r' : 'n'<bar>exe "norm!
0"<bar>call <SID>NetrwBrowse(0,<SID>NetrwBrowseChgDir(0,'./'))<cr>
nnoemap <buffer> <silent> s :call <SID>NetrwSortStyle(0)<cr>
nnoemap <buffer> <silent> S :call <SID>NetSortSequence(0)<cr>
nnoemap <buffer> <silent> t :call <SID>NetrwSplit(1)<cr>
nnoemap <buffer> <silent> u :<c-u>call <SID>NetrwBookHistHandler(4,b:netrw_curdir)<cr>
nnoemap <buffer> <silent> U :<c-u>call <SID>NetrwBookHistHandler(5,b:netrw_curdir)<cr>
nnoemap <buffer> <silent> v :call <SID>NetrwSplit(2)<cr>
nnoemap <buffer> <silent> x :call
netrw#NetrwBrowseX(<SID>NetrwBrowseChgDir(0,<SID>NetrwGetWord()),1)<cr>
nnoemap <buffer> <silent> % :call <SID>NetrwOpenFile(0)<cr>
if !hasmapto('<Plug>NetrwHideEdit')
nmap <buffer> <c-h> <Plug>NetrwHideEdit
endif
nnoemap <buffer> <silent> <Plug>NetrwHideEdit :call <SID>NetrwHideEdit(0)<cr>
if !hasmapto('<Plug>NetrwRefresh')
nmap <buffer> <c-l> <Plug>NetrwRefresh
endif

let mapsafepath = escape(s:path, s:netrw_map_escape)
let mapsafeusermach = escape(s:user.s:machine, s:netrw_map_escape)

nnoemap <buffer> <silent> <Plug>NetrwRefresh :call
<SID>NetrwRefresh(0,<SID>NetrwBrowseChgDir(0,'./'))<cr>
if g:netrw_mousemaps == 1
nnoemap <buffer> <silent> <leftmouse> <leftmouse>:call <SID>NetrwLeftmouse(0)<cr>
nnoemap <buffer> <silent> <middlemouse> <leftmouse>:call <SID>NetrwPrevWinOpen(0)<cr>
nnoemap <buffer> <silent> <s-leftmouse> <leftmouse>:call
<SID>NetrwMarkFile(0,<SID>NetrwGetWord())<cr>
exe 'nnoemap <buffer> <silent> <rightmouse> <leftmouse>:call
<SID>NetrwRemoteRm("".mapsafeusermach."","".mapsafepath."")<cr>'
exe 'vnoremap <buffer> <silent> <rightmouse> <leftmouse>:call
<SID>NetrwRemoteRm("".mapsafeusermach."","".mapsafepath."")<cr>'
endif
exe 'nnoemap <buffer> <silent> <del> :call <SID>NetrwRemoteRm("".mapsafeusermach."","".mapsafepath."")<cr>'
exe 'vnoremap <buffer> <silent> <del> :call <SID>NetrwRemoteRm("".mapsafeusermach."","".mapsafepath."")<cr>'
exe 'nnoemap <buffer> <silent> d :call <SID>NetrwMakeDir("".mapsafeusermach."")<cr>'
exe 'nnoemap <buffer> <silent> D :call <SID>NetrwRemoteRm("".mapsafeusermach."","".mapsafepath."")<cr>'

```

```

exe 'vnoremap <buffer> <silent> D :call <SID>NetrwRemoteRm(".mapsafeusermach.", ".mapsafepath.")<cr>'
exe 'nnoremap <buffer> <silent> R :call <SID>NetrwRemoteRename(".mapsafeusermach.", ".mapsafepath.")<cr>'
exe 'vnoremap <buffer> <silent> R :call <SID>NetrwRemoteRename(".mapsafeusermach.", ".mapsafepath.")<cr>'
nnoremap <buffer> <F1> :he netrw-quickhelp<cr>
endif
call s:SetRexDir(a:islocal,b:netrw_curdir)
" call Dret("s:BrowserMaps")
endfun

" -----
" s:ExplorePatHls: converts an Explore pattern into a regular expression search pattern {{{2
fun! s:ExplorePatHls(pattern)
" call Dfunc("s:ExplorePatHls(pattern<".a:pattern.">)")
let repat= substitute(a:pattern, '^*.*^{1,2}', "", "")
" call Decho("repat<".repat.">")
let repat= escape(repat, '[.\|]')
" call Decho("repat<".repat.">")
let repat= '<' . substitute(repat, '*', '\\(\\S\\|+ \\)*\\S\\|+', 'g') . '>'
" call Dret("s:ExplorePatHls repat<".repat.">")
return repat
endfun

" -----
" s:NetrwBookHistHandler: {{{2
" 0: (user: <mb>) bookmark current directory
" 1: (user: <gb>) change to the bookmarked directory
" 2: (user: <qb>) list bookmarks
" 3: (browsing) record current directory history
" 4: (user: <u>) go up (previous) bookmark
" 5: (user: <U>) go down (next) bookmark
" 6: (user: <mB>) delete bookmark
fun! s:NetrwBookHistHandler(chg,curdir)
" call Dfunc("NetrwBookHistHandler(chg=" .a:chg." curdir<".a:curdir.">) cnt=" .v:count."
histcnt=" .g:netrw_dirhist_cnt." histmax=" .g:netrw_dirhistmax)

if a:chg == 0
" bookmark the current directory
" call Decho("(user: <b>) bookmark the current directory")
if !exists("g:netrw_bookmarklist")
let g:netrw_bookmarklist= []
endif
if index(g:netrw_bookmarklist,a:curdir) == -1
" curdir not currently in g:netrw_bookmarklist, so include it
call add(g:netrw_bookmarklist,a:curdir)
call sort(g:netrw_bookmarklist)
endif
echo "bookmarked the current directory"

```

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elseif a:chg == 1
  " change to the bookmarked directory
" call Decho("(user: <.v:count."mb>) change to the bookmarked directory")
if exists("g:netrw_bookmarklist[v:count-1]")
  exe "e ".fnameescape(g:netrw_bookmarklist[v:count-1])
else
  echomsg "Sorry, bookmark#" .v:count." doesn't exist!"
endif

elseif a:chg == 2
  " redraw!
let didwork= 0
  " list user's bookmarks
" call Decho("(user: <q>) list user's bookmarks")
if exists("g:netrw_bookmarklist")
" call Decho('list '.len(g:netrw_bookmarklist).' bookmarks')
let cnt= 1
for bmd in g:netrw_bookmarklist
" call Decho("Netrw Bookmark#" .cnt.": ".g:netrw_bookmarklist[cnt-1])
echo "Netrw Bookmark#" .cnt.": ".g:netrw_bookmarklist[cnt-1]
let didwork = 1
let cnt = cnt + 1
endfor
endif

  " list directory history
let cnt = g:netrw_dirhist_cnt
let first = 1
let histcnt = 0
while ( first || cnt != g:netrw_dirhist_cnt )
" call Decho("first=" .first." cnt=" .cnt." dirhist_cnt=" .g:netrw_dirhist_cnt)
let histcnt= histcnt + 1
if exists("g:netrw_dirhist_{cnt}")
" call Decho("Netrw History#" .histcnt.": ".g:netrw_dirhist_{cnt})
echo "Netrw History#" .histcnt.": ".g:netrw_dirhist_{cnt}
let didwork= 1
endif
let first = 0
let cnt = ( cnt - 1 ) % g:netrw_dirhistmax
if cnt < 0
let cnt= cnt + g:netrw_dirhistmax
endif
endwhile
if didwork
call inputsave()call input("Press <cr> to continue")call inputrestore()
endif

elseif a:chg == 3

```

```

" saves most recently visited directories (when they differ)
" call Decho("(browsing) record curdir history")
if !exists("g:netrw_dirhist_cnt") || !exists("g:netrw_dirhist_{g:netrw_dirhist_cnt}") ||
g:netrw_dirhist_{g:netrw_dirhist_cnt} != a:curdir
  let g:netrw_dirhist_cnt          = ( g:netrw_dirhist_cnt + 1 ) % g:netrw_dirhistmax
  let g:netrw_dirhist_{g:netrw_dirhist_cnt} = a:curdir
" call Decho("save dirhist#" .g:netrw_dirhist_cnt . "<" .g:netrw_dirhist_{g:netrw_dirhist_cnt} . ">")
endif

elseif a:chg == 4
" u: change to the previous directory stored on the history list
" call Decho("(user: <u>) chg to prev dir from history")
let g:netrw_dirhist_cnt=( g:netrw_dirhist_cnt - 1 ) % g:netrw_dirhistmax
if g:netrw_dirhist_cnt < 0
  let g:netrw_dirhist_cnt= g:netrw_dirhist_cnt + g:netrw_dirhistmax
endif
if exists("g:netrw_dirhist_{g:netrw_dirhist_cnt}")
" call Decho("changedir u#" .g:netrw_dirhist_cnt . "<" .g:netrw_dirhist_{g:netrw_dirhist_cnt} . ">")
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir")
  setlocal ma noro
" call Decho("setlocal ma noro")
  %d
  setlocal nomod
" call Decho("setlocal nomod")
endif
" " call Decho("exe e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt}))
exe "e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt})
else
  let g:netrw_dirhist_cnt=( g:netrw_dirhist_cnt + 1 ) % g:netrw_dirhistmax
  echo "Sorry, no predecessor directory exists yet"
endif

elseif a:chg == 5
" U: change to the subsequent directory stored on the history list
" call Decho("(user: <U>) chg to next dir from history")
let g:netrw_dirhist_cnt=( g:netrw_dirhist_cnt + 1 ) % g:netrw_dirhistmax
if exists("g:netrw_dirhist_{g:netrw_dirhist_cnt}")
" call Decho("changedir U#" .g:netrw_dirhist_cnt . "<" .g:netrw_dirhist_{g:netrw_dirhist_cnt} . ">")
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir")
  setlocal ma noro
" call Decho("setlocal ma noro")
  %d
" call Decho("removed all lines from buffer (%d)")
  setlocal nomod
" call Decho("setlocal nomod")
endif
" call Decho("exe e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt}))
exe "e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt})

```

```

else
  let g:netrw_dirhist_cnt= ( g:netrw_dirhist_cnt - 1 ) % g:netrw_dirhistmax
  if g:netrw_dirhist_cnt < 0
    let g:netrw_dirhist_cnt= g:netrw_dirhist_cnt + g:netrw_dirhistmax
  endif
  echo "Sorry, no successor directory exists yet"
endif

elseif a:chg == 6
  " delete the v:count'th bookmark
"  call Decho("delete bookmark#" .v:count."<" .g:netrw_bookmarklist[v:count-1].">")
let savefile= s:NetrwHome()."/.netrwbook"
if filereadable(savefile)
  call s:NetrwBookHistSave() " done here to merge bookmarks first
  call delete(savefile)
endif
call remove(g:netrw_bookmarklist,v:count-1)
endif
call s:NetrwBookmarkMenu()
" call Dret("NetrwBookHistHandler")
endfun

" -----
"s:NetrwBookHistRead: this function reads bookmarks and history {{{2
"       Sister function: s:NetrwBookHistSave()
fun! s:NetrwBookHistRead()
"  call Dfunc("s:NetrwBookHistRead()")
if !exists("s:netrw_initbookhist")
  let savefile= s:NetrwHome()."/.netrwbook"
  if filereadable(savefile)
    "  call Decho("sourcing .netrwbook")
    exe "so " .savefile
  endif
  let savefile= s:NetrwHome()."/.netrwhist"
  if filereadable(savefile)
    "  call Decho("sourcing .netrwhist")
    exe "so " .savefile
  endif
  let s:netrw_initbookhist= 1
  au VimLeave * call s:NetrwBookHistSave()
endif
"  call Dret("s:NetrwBookHistRead")
endfun

" -----
"s:NetrwBookHistSave: this function saves bookmarks and history {{{2
"       Sister function: s:NetrwBookHistRead()
"       I used to do this via viminfo but that appears to

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```

"          be unreliable for long-term storage
"          COMBAK: does $HOME work under windows???
fun! s:NetrwBookHistSave()
" call Dfunc("s:NetrwBookHistSave() dirhistmax=".g:netrw_dirhistmax)
let savefile= s:NetrwHome()."/.netrwhist"
1split
enew
setlocal noswf

" save .netrwhist -- no attempt to merge
file .netrwhist
call setline(1,"let g:netrw_dirhistmax =".g:netrw_dirhistmax)
call setline(2,"let g:netrw_dirhist_cnt =".g:netrw_dirhist_cnt)
let lastline = line("$")
let cnt = 1
while cnt <= g:netrw_dirhist_cnt
  call setline((cnt+lastline),'let g:netrw_dirhist_'.cnt."="."g:netrw_dirhist_{cnt}. """)
  let cnt= cnt + 1
endwhile
exe "silent! w! ".savefile
%d

if exists("g:netrw_bookmarklist") && g:netrw_bookmarklist != []
" merge and write .netrwbook
let savefile= s:NetrwHome()."/.netrwbook"

if filereadable(savefile)
  let booklist= deepcopy(g:netrw_bookmarklist)
  exe "silent so ".savefile
  for bdm in booklist
    if index(g:netrw_bookmarklist,bdm) == -1
      call add(g:netrw_bookmarklist,bdm)
    endif
  endfor
  call sort(g:netrw_bookmarklist)
  exe "silent! w! ".savefile
endif

" construct and save .netrwbook
call setline(1,"let g:netrw_bookmarklist= ".string(g:netrw_bookmarklist))
exe "silent! w! ".savefile
endif
let bgone= bufnr("%")
q!
exe bgone."bwipe!"

" call Dret("s:NetrwBookHistSave")
endfun

```

```

" -----
" s:NetrwBrowse: This function uses the command in g:netrw_list_cmd to provide a {{{2
" list of the contents of a local or remote directory. It is assumed that the
" g:netrw_list_cmd has a string, USEPORT HOSTNAME, that needs to be substituted
" with the requested remote hostname first.
fun! s:NetrwBrowse(islocal,dirname)
  if !exists("w:netrw_liststyle")|let w:netrw_liststyle= g:netrw_liststyle|endif
  " call Dfunc("s:NetrwBrowse(islocal=".a:islocal." dirname<".a:dirname.">) liststyle=".w:netrw_liststyle."
  ".g:loaded_netrw." buf#" bufnr("%")."<".bufname("%").">")
  " call Decho("tab#" .tabpagenr(). " win#" .winnr())
  " call Dredir("ls!")
  if !exists("s:netrw_initbookhist")
    call s:NetrwBookHistRead()
  endif

  if exists("s:netrw_skipbrowse")
    unlet s:netrw_skipbrowse
    " call Decho("ro=" .&l:ro." ma=" .&l:ma." mod=" .&l:mod." wrap=" .&l:wrap)
    " call Dret("s:NetrwBrowse : s:netrw_skipbrowse=" .s:netrw_skipbrowse)
    return
  endif
  if !exists("*shellescape")
    call netrw#ErrorMsg(s:ERROR,"netrw can't run -- your vim is missing shellescape()",69)
    " call Dret("s:NetrwBrowse : missing shellescape()")
    return
  endif
  if !exists("*fnameescape")
    call netrw#ErrorMsg(s:ERROR,"netrw can't run -- your vim is missing fnameescape()",70)
    " call Dret("s:NetrwBrowse : missing fnameescape()")
    return
  endif

  call s:NetrwOptionSave("w:")
  call s:NetrwSafeOptions()

  " re-instate any marked files
  if exists("s:netrwmarkfilelist_{bufnr('%')}")
    " call Decho("clearing marked files")
    exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}. "/"
  endif

  if a:islocal && exists("w:netrw_acdkeep") && w:netrw_acdkeep
    " call Decho("handle w:netrw_acdkeep:")
    " call Decho("keepjumps lcd ".fnameescape(a:dirname)." (due to w:netrw_acdkeep=".w:netrw_acdkeep." -
    acd=".&acd.")")
    exe 'keepjumps lcd '.fnameescape(a:dirname)
    " call Decho("getcwd<".getcwd().">")

```

```

elseif !a:islocal && a:dirname !~ '[V]$\ ' && a:dirname !~ '^"'
" looks like a regular file, attempt transfer
" call Decho("attempt transfer as regular file<"a:dirname.">")

" remove any filetype indicator from end of dirname, except for the {{{3
" "this is a directory" indicator (/).
" There shouldn't be one of those here, anyway.
let path= substitute(a:dirname,['*=@|]r\=$',' ','e')
" call Decho("new path<".path.">")
call s:RemotePathAnalysis(a:dirname)

" remote-read the requested file into current buffer {{{3
mark '
call s:NetrwEnew(a:dirname)
setlocal ma noro
" call Decho("setlocal ma noro")
let b:netrw_curdir= a:dirname
" call Decho("exe silent! keepalt file ".fnameescape(s:method."/".s:user.s:machine."/".s:path)."(bt=".&bt.")")
exe "silent! keepalt file ".fnameescape(s:method."/".s:user.s:machine."/".s:path)
exe "silent keepalt doau BufReadPre ".fnameescape(s:fname)
silent call netrw#NetRead(2,s:method."/".s:user.s:machine."/".s:path)
if s:path !~ '.tar.bz2$' && s:path !~ '.tar.gz'
" netrw.vim and tar.vim have already handled decompression of the tarball; avoiding gzip.vim error
exe "silent keepalt doau BufReadPost ".fnameescape(s:fname)
endif

" save certain window-oriented variables into buffer-oriented variables {{{3
call s:SetBufWinVars()
call s:NetrwOptionRestore("w:")
setlocal ma nomod

" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwBrowse : file<"s:fname.">")
return
endif

" use buffer-oriented WinVars if buffer ones exist but window ones don't {{{3
call s:UseBufWinVars()

" set up some variables {{{3
let b:netrw_browser_active = 1
let dirname = a:dirname
let s:last_sort_by = g:netrw_sort_by

" set up menu {{{3
call s:NetrwMenu(1)

```

```

" set up buffer {{{3
let reusing= s:NetrwGetBuffer(a:islocal,dirname)
" maintain markfile highlighting
if exists("s:netrwmarkfilemtch_{bufnr('%')}") && s:netrwmarkfilemtch_{bufnr("%")} != ""
" call Decho("bufnr(%)=".bufnr('%'))
" call Decho("exe 2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/")
exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/"
else
" call Decho("2match none")
2match none
endif
if reusing
call s:NetrwOptionRestore("w:")
setlocal noma nomod nowrap
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwBrowse : re-using buffer")
return
endif

" set b:netrw_curdir to the new directory name {{{3
" call Decho("set b:netrw_curdir to the new directory name:")
let b:netrw_curdir= dirname
if b:netrw_curdir =~ '[\\\$]'
let b:netrw_curdir= substitute(b:netrw_curdir,'[\\\$]',", 'e')
endif
if b:netrw_curdir == "
if has("amiga")
" On the Amiga, the empty string connotes the current directory
let b:netrw_curdir= getcwd()
else
" under unix, when the root directory is encountered, the result
" from the preceding substitute is an empty string.
let b:netrw_curdir= '/'
endif
endif
if !a:islocal && b:netrw_curdir !~ '/'$
let b:netrw_curdir= b:netrw_curdir.'/'
endif
" call Decho("b:netrw_curdir<".b:netrw_curdir.">")

" -----
" (local only) {{{3
" -----
if a:islocal
" call Decho("local only:")

" Set up ShellCmdPost handling. Append current buffer to browselist
call s:LocalFastBrowser()

```

```

" handle g:netrw_keepdir: set vim's current directory to netrw's notion of the current directory {{{3
if !g:netrw_keepdir
"   call Decho("handle g:netrw_keepdir=".g:netrw_keepdir.": getcwd<".getcwd()."> acd=".&acd)
"   call Decho("l:acd".(exists("&l:acd")? "=".&l:acd : " doesn't exist"))
"   if !exists("&l:acd") || !&l:acd
"     call Decho('exe keepjumps lcd '.fnameescape(b:netrw_curdir))
"     try
"       exe 'keepjumps lcd '.fnameescape(b:netrw_curdir)
"       catch /^Vim\%((\a+)\)=:E472/
"         call netrw#ErrorMsg(s:ERROR,"unable to change directory to <".b:netrw_curdir."> (permissions?)",61)
"         if exists("w:netrw_prvdir")
"           let b:netrw_curdir= w:netrw_prvdir
"         else
"           call s:NetrwOptionRestore("w:")
"           setlocal noma nomod nowrap
"           let b:netrw_curdir= dirname
"         call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"         call Dret("s:NetrwBrowse : reusing buffer#".(exists("bufnum")? bufnum : 'N/A')."("<".dirname.">
getcwd<".getcwd().">")
"         return
"       endif
"     endtry
"   endif
" endif

" -----
" remote handling: {{{3
" -----

else
"   call Decho("remote only:")

"   analyze a:dirname and g:netrw_list_cmd {{{4
"   call Decho("b:netrw_curdir<".(exists("b:netrw_curdir")? b:netrw_curdir : "doesn't exist").">
a:dirname<".a:dirname.">")
"   if a:dirname =~ "^NetrwTreeListing">
"     let dirname= b:netrw_curdir
"     call Decho("(dirname was ".a:dirname.") dirname<".dirname.">")
"     elseif exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir")
"       let dirname= substitute(b:netrw_curdir,"\\','g')
"       if dirname !~ '/'
"         let dirname= dirname.'/'
"       endif
"       let b:netrw_curdir = dirname
"     call Decho("(liststyle is TREELIST) dirname<".dirname.">")
"   else
"     let dirname = substitute(a:dirname,"\\','g')
"     call Decho("(normal) dirname<".dirname.">")

```

```

endif

let dirpat = '^(\w\{-}\):/(\w\+@)|=([^\|+])\^(.*)$'
if dirname !~ dirpat
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"netrw doesn't understand your dirname<".dirname.">",20)
endif
call s:NetrwOptionRestore("w:")
setlocal noma nomod nowrap
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwBrowse : badly formatted dirname<".dirname.">")
return
endif
let b:netrw_curdir= dirname
" call Decho("b:netrw_curdir<".b:netrw_curdir."> (remote)")
endif " (additional remote handling)

" -----
" Directory Listing: {{{3
" -----
call s:BrowserMaps(a:islocal)
call s:PerformListing(a:islocal)

" The s:LocalBrowseShellCmdRefresh() function is called by an autocmd
" installed by s:LocalFastBrowser() when g:netrw_fastbrowse <= 1 (ie. slow, medium speed).
" However, s:NetrwBrowse() causes the ShellCmdPost event itself to fire once; setting
" the variable below avoids that second refresh of the screen. The s:LocalBrowseShellCmdRefresh()
" function gets called due to that autocmd; it notices that the following variable is set
" and skips the refresh and sets s:locbrowseshellcmd to zero. Oct 13, 2008
let s:locbrowseshellcmd= 1

" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwBrowse : did PerformListing")
return
endfun

" -----
" s:NetrwFileInfo: supports qf (query for file information) {{{2
fun! s:NetrwFileInfo(islocal,fname)
" call Dfunc("s:NetrwFileInfo(islocal=".&l:islocal." fname<".&l:fname.">")
if a:islocal
if (has("unix") || has("macunix")) && executable("/bin/ls")
if exists("b:netrw_curdir")
" call Decho('using ls with b:netrw_curdir<'.b:netrw_curdir.>')
if b:netrw_curdir =~ '/'$
echo system("/bin/ls -lsad ".shellescape(b:netrw_curdir.a:fname))
else
echo system("/bin/ls -lsad ".shellescape(b:netrw_curdir."/".a:fname))

```

```

endif
else
" call Decho('using ls !:a:fname.' using cwd<"getcwd().">')
echo system("/bin/ls -lsad ".shellescape(a:fname))
endif
else
" use vim functions to return information about file below cursor
" call Decho("using vim functions to query for file info")
if !isdirectory(a:fname) && !filereadable(a:fname) && a:fname =~ '[@/]'
let fname= substitute(a:fname,".$","","")
else
let fname= a:fname
endif
let t = getftime(fname)
let sz = getfsize(fname)
echo a:fname.: ".sz." ".strftime(g:netrw_timefmt,getftime(fname))
" call Decho(fname.: ".sz." ".strftime(g:netrw_timefmt,getftime(fname)))
endif
else
echo "sorry, \qf\ not supported yet for remote files"
endif
" call Dret("s:NetrwFileInfo")
endfun

" -----
" s:NetrwGetBuffer: {{{2
" returns 0=cleared buffer
" 1=re-used buffer
fun! s:NetrwGetBuffer(islocal,dirname)
" call Dfunc("s:NetrwGetBuffer(islocal=":a:islocal." dirname<":a:dirname.>) liststyle=":g:netrw_liststyle)
let dirname= a:dirname

" re-use buffer if possible {{{3
" call Decho("--re-use a buffer if possible--")
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
" find NetrwTreeList buffer if there is one
if exists("w:netrw_treebufnr") && w:netrw_treebufnr > 0
" call Decho(" re-use w:netrw_treebufnr=":w:netrw_treebufnr)
let ekeep= &ei
set ei=all
exe "b ":w:netrw_treebufnr
let &ei= ekeep
" call Dret("s:NetrwGetBuffer : bufnum#":w:netrw_treebufnr."<NetrwTreeListing>")
return
endif
let bufnum= -1
" call Decho(" liststyle=TREE but w:netrw_treebufnr doesn't exist")

```

```

else
" find buffer number of buffer named precisely the same as dirname {{{3
" call Decho("--find buffer numnber of buffer named precisely the same as dirname--")
" call Dredir("ls!")

" get dirname and associated buffer number
let bufnum = bufnr(escape(dirname,'\'))
" call Decho(" find buffer<".dirname.">'s number ")
" call Decho(" bufnr(dirname<".escape(dirname,'\').">)= ".bufnum)

if bufnum < 0 && dirname !~ '/'$'
" trying appending a trailing /
" call Decho(" try appending a trailing / to dirname<".dirname.">")
let bufnum= bufnr(escape(dirname.'/','\'))
if bufnum > 0
let dirname= dirname.'/
endif
endif

if bufnum < 0 && dirname =~ '/'$'
" trying removing a trailing /
" call Decho(" try removing a trailing / from dirname<".dirname.">")
let bufnum= bufnr(escape(substitute(dirname,'/','$',''),'\'))
if bufnum > 0
let dirname= substitute(dirname,'/','$','')
endif
endif

" call Decho(" findbuf1: bufnum=bufnr("".dirname."")=".bufnum." bufname("".bufnum."")<".bufname(bufnum).">
(initial)")
" note: !~ was used just below, but that means using ../ to go back would match (ie. abc/def/ and abc/ matches)
if bufnum > 0 && bufname(bufnum) != dirname && bufname(bufnum) != '.'
" handle approximate matches
" call Decho(" handling approx match: bufnum#%d<".bufname(bufnum)."> approx=dirname<".dirname.">")
let ibuf = 1
let buflast = bufnr("$")
" call Decho(" findbuf2: buflast=".buflast)
while ibuf <= buflast
let bname= substitute(bufname(ibuf),'\','/','g')
let bname= substitute(bname,'\zs/$','',"")
" call Decho(" findbuf3: dirname<".dirname."> bufname("".ibuf."")<".bname.">")
if bname != " && dirname =~ '/'bname.'/\=$' | break | endif
if bname =~ '^'.dirname.'/\=$' | break | endif
if dirname =~ '^'.bname.'/\$' | break | endif
let ibuf= ibuf + 1
endwhile
if ibuf > buflast
let bufnum= -1

```

```

else
  let bufnum= ibuf
endif
" call Decho(" findbuf4: bufnum=".bufnum." (ibuf=".ibuf." buflast=".buflast.")")
endif
endif

" get anew buffer and name it -or- re-use buffer {{{3
" call Decho("--get anew buffer and name it OR re-use buffer-- (bufnum=".bufnum.")")
mark '
if bufnum < 0 || !bufexists(bufnum)
  call s:NetrwEnew(dirname)
" call Decho(" got anew buffer#.bufnr("%")." (altbuf<".expand("#").">")
" name the buffer
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
" Got anew buffer; transform into a NetrwTreeListing
" call Decho("--transform anew buffer#.bufnr("%")." into a NetrwTreeListing --")
if !exists("s:netrw_treelistnum")
  let s:netrw_treelistnum= 1
else
  let s:netrw_treelistnum= s:netrw_treelistnum + 1
endif
let w:netrw_treebufnr= bufnr("%")
" call Decho(" exe silent! keepalt file NetrwTreeListing ".fnameescape(s:netrw_treelistnum))
exe 'silent! keepalt file NetrwTreeListing\ '.fnameescape(s:netrw_treelistnum)
nnoremap <silent> <buffer> [ :silent call <SID>TreeListMove('[')<cr>
nnoremap <silent> <buffer> ] :silent call <SID>TreeListMove(']')<cr>
nnoremap <silent> <buffer> [[ :silent call <SID>TreeListMove('[')<cr>
nnoremap <silent> <buffer> ]] :silent call <SID>TreeListMove(']')<cr>
" call Decho(" tree listing#.s:netrw_treelistnum." bufnr=".w:netrw_treebufnr)
else
" let v:errmsg= "" " Decho
let escdirname= fnameescape(dirname)
" call Decho(" errmsg<".v:errmsg.">
bufnr(".escdirname.")=".bufnr(escdirname)."<".bufname(bufnr(escdirname)).">")
" call Decho(' exe silent! keepalt file '.escdirname)
exe 'silent! keepalt file '.escdirname
" call Decho(" errmsg<".v:errmsg.">
bufnr(".escdirname.")=".bufnr(escdirname)."<".bufname(bufnr(escdirname)).">")
endif
" call Decho(" named anew buffer#.bufnr("%")."<".bufname("%").">")

else " Re-use the buffer
" call Decho("--re-use buffer#.bufnum.": --")
let ekeep= &ei
set ei=all
if getline(2) =~ '^" Netrw Directory Listing'
" call Decho(" re-use buffer#.bufnum."<".((bufnum > 0)? bufname(bufnum) : "")."> using: keepalt b ".bufnum)

```

```

exe "keepalt b ".bufnum
else
" call Decho(" reusing buffer#" .bufnum."<" .((bufnum > 0)? bufname(bufnum) : "")."> using: b ".bufnum)
exe "b ".bufnum
endif
if bufname("%") == '.'
" call Decho("exe silent! keepalt file ".fnameescape(getcwd()))
exe "silent! keepalt file ".fnameescape(getcwd())
endif
let &ei= eikeep
if line("$") <= 1
call s:NetrwListSettings(a:islocal)
" call Dret("s:NetrwGetBuffer 0 : re-using buffer#" .bufnr("%)." , but its empty, so refresh it")
return 0
elseif exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
" call Decho("--re-use tree listing--")
" call Decho(" clear buffer<".expand("%")."> with :%d")
silent %d
call s:NetrwListSettings(a:islocal)
" call Dret("s:NetrwGetBuffer 0 : re-using buffer#" .bufnr("%)." , but treelist mode always needs a refresh")
return 0
else
" call Dret("s:NetrwGetBuffer 1 : buf#" .bufnr("%"))
return 1
endif
endif

" do netrw settings: make this buffer not-a-file, modifiable, not line-numbered, etc {{{3
" fastbrowse Local Remote Hiding a buffer implies it may be re-used (fast)
" slow 0 D D Deleting a buffer implies it will not be re-used (slow)
" med 1 D H
" fast 2 H H
" call Decho("--do netrw settings: make this buffer not-a-file, modifiable, not line-numbered, etc--")
let fname= expand("%")
call s:NetrwListSettings(a:islocal)
" call Decho("exe keepalt file ".fnameescape(fname))
exe "keepalt file ".fnameescape(fname)

" delete all lines from buffer {{{3
" call Decho("--delete all lines from buffer--")
" call Decho(" clear buffer<".expand("%")."> with :%d")
keepalt silent! %d

" call Dret("s:NetrwGetBuffer 0 : buf#" .bufnr("%"))
return 0
endfun

" -----

```

```

" s:NetrwGetcwd: get the current directory. {{{2
"  Change backslashes to forward slashes, if any.
"  If doesc is true, escape certain troublesome characters
fun! s:NetrwGetcwd(doesc)
"  call Dfunc("NetrwGetcwd(doesc=".a:doesc.")")
let curdir= substitute(getcwd(),"\\','/','ge')
if curdir !~ '[\|/]'
  let curdir= curdir.'/'
endif
if a:doesc
  let curdir= fnameescape(curdir)
endif
"  call Dret("NetrwGetcwd <".curdir.">")
return curdir
endfun

" -----
" s:NetrwGetWord: it gets the directory/file named under the cursor {{{2
fun! s:NetrwGetWord()
"  call Dfunc("s:NetrwGetWord() line#".line(".").liststyle=".g:netrw_liststyle." virtcol=".virtcol("."))
call s:UseBufWinVars()

"  insure that w:netrw_liststyle is set up
if !exists("w:netrw_liststyle")
if exists("g:netrw_liststyle")
  let w:netrw_liststyle= g:netrw_liststyle
else
  let w:netrw_liststyle= s:THINLIST
endif
"  call Decho("w:netrw_liststyle=".w:netrw_liststyle)
endif

if exists("w:netrw_bannercnt") && line(".") < w:netrw_bannercnt
"  Active Banner support
"  call Decho("active banner handling")
norm! 0
let dirname= "/"
let curline= getline('.')

if curline =~ ""\s*Sorted by\s'
norm s
let s:netrw_skipbrowse= 1
echo 'Pressing "s" also works'

elseif curline =~ ""\s*Sort sequence:'
let s:netrw_skipbrowse= 1
echo 'Press "S" to edit sorting sequence'

```

```

elseif curline =~ "\s*Quick Help:'
  norm ?
  let s:netrw_skipbrowse= 1
  echo 'Pressing "?" also works'

elseif curline =~ "\s*\%(Hiding\|Showing\):'
  norm a
  let s:netrw_skipbrowse= 1
  echo 'Pressing "a" also works'

elseif line("$") > w:netrw_bannercnt
  exe 'silent keepjumps '.w:netrw_bannercnt
endif

elseif w:netrw_liststyle == s:THINLIST
" call Decho("thin column handling")
norm! 0
let dirname= getline('.')

elseif w:netrw_liststyle == s:LONGLIST
" call Decho("long column handling")
norm! 0
let dirname= substitute(getline('.'),'^(\%(\|S\+ \)*S\+).\{-}$',\1,'e')

elseif w:netrw_liststyle == s:TREELIST
" call Decho("treelist handling")
let dirname= substitute(getline('.'),'^(\| \)*',';','e')

else
" call Decho("obtain word from wide listing")
let dirname= getline('.')

if !exists("b:netrw_cpf")
let b:netrw_cpf= 0
exe 'silent keepjumps '.w:netrw_bannercnt.',$g/^./if virtcol("$") > b:netrw_cpf|let b:netrw_cpf= virtcol("$)|endif'
" call Decho("computed cpf=" .b:netrw_cpf)
endif

" call Decho("buf#".bufnr("%")."<".bufname("%").">")
let filestart = (virtcol(".")/b:netrw_cpf)*b:netrw_cpf
" call Decho("filestart= ([virtcol=".virtcol(".")] / [b:netrw_cpf=".b:netrw_cpf.] ) * b:netrw_cpf = .filestart."
bannercnt=" .w:netrw_bannercnt)
" call Decho("1: dirname<".dirname.">")
if filestart == 0
norm! Oma
else
call cursor(line("."),filestart+1)
norm! ma

```

```

endif
let rega= @a
let eofname= filestart + b:netrw_cpf + 1
if eofname <= col("$")
  call cursor(line("."),filestart+b:netrw_cpf+1)
  norm! "ay'a
else
  norm! "ay$
endif
let dirname = @a
let @a    = rega
" call Decho("2: dirname<".dirname.">")
let dirname= substitute(dirname, '\s\+$', '', 'e')
" call Decho("3: dirname<".dirname.">")
endif

" symlinks are indicated by a trailing "@". Remove it before further processing.
let dirname= substitute(dirname, "@$", "", "")

" executables are indicated by a trailing "*". Remove it before further processing.
let dirname= substitute(dirname, "\*$", "", "")

" call Dret("s:NetrwGetWord <".dirname.">")
return dirname
endfun

" -----
" s:NetrwListSettings: {{{2
fun! s:NetrwListSettings(islocal)
" call Dfunc("s:NetrwListSettings(islocal=".a:islocal.")")
let fname= bufname("%")
" call Decho("setlocal bt=nofile nobl ma nonu nowrap noro")
setlocal bt=nofile nobl ma nonu nowrap noro
" call Decho("exe keepalt file ".fnameescape(fname))
exe "keepalt file ".fnameescape(fname)
if g:netrw_use_noswf
  setlocal noswf
endif
" call Dredir("ls!")
" call Decho("exe setlocal ts=".g:netrw_maxfilenamelen)
exe "setlocal ts=".g:netrw_maxfilenamelen
setlocal isk+.,~,-
if g:netrw_fastbrowse > a:islocal
  setlocal bh=hide
else
  setlocal bh=delete
endif
" call Dret("s:NetrwListSettings")

```

```

endfun

" -----
" s:NetrwListStyle: {{{2
" islocal=0: remote browsing
"   =1: local browsing
fun! s:NetrwListStyle(islocal)
" call Dfunc("NetrwListStyle(islocal=".a:islocal.") w:netrw_liststyle=".w:netrw_liststyle)
let fname      = s:NetrwGetWord()
if !exists("w:netrw_liststyle")|let w:netrw_liststyle= g:netrw_liststyle|endif
let w:netrw_liststyle = (w:netrw_liststyle + 1) % s:MAXLIST
" call Decho("fname<".fname.">")
" call Decho("chgd w:netrw_liststyle to ".w:netrw_liststyle)
" call Decho("b:netrw_curdir<".(exists("b:netrw_curdir")? b:netrw_curdir : "doesn't exist").">")

if w:netrw_liststyle == s:THINLIST
" use one column listing
" call Decho("use one column list")
let g:netrw_list_cmd = substitute(g:netrw_list_cmd,'-l','ge')

elseif w:netrw_liststyle == s:LONGLIST
" use long list
" call Decho("use long list")
let g:netrw_list_cmd = g:netrw_list_cmd." -l"

elseif w:netrw_liststyle == s:WIDELIST
" give wide list
" call Decho("use wide list")
let g:netrw_list_cmd = substitute(g:netrw_list_cmd,'-l','ge')

elseif w:netrw_liststyle == s:TREELIST
" call Decho("use tree list")
let g:netrw_list_cmd = substitute(g:netrw_list_cmd,'-l','ge')

else
call netrw#ErrorMsg(s:WARNING,"bad value for g:netrw_liststyle (=".w:netrw_liststyle.")",46)
let g:netrw_liststyle = s:THINLIST
let w:netrw_liststyle = g:netrw_liststyle
let g:netrw_list_cmd = substitute(g:netrw_list_cmd,'-l','ge')
endif
setlocal ma noro
" call Decho("setlocal ma noro")

" clear buffer - this will cause NetrwBrowse/LocalBrowseCheck to do a refresh
" call Decho("clear buffer<".expand("%")."> with :%d")
%d

" refresh the listing

```

```

let svpos= netrw#NetrwSavePosn()
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
call netrw#NetrwRestorePosn(svpos)
if w:netrw_liststyle != s:WIDELIST
if g:netrw_cursorline == 2
setlocal cursorline
let &cursorcolumn= s:netrw_usercuc
elseif g:netrw_cursorline
setlocal cursorline
" call Decho("setlocal cursorline")
endif
else
if g:netrw_cursorline == 2
setlocal cursorline cursorcolumn
" call Decho("setlocal cursorline cursorcolumn")
elseif g:netrw_cursorline
let &cursorline= s:netrw_usercul
endif
endif

" keep cursor on the filename
silent keepjumps $
let result= search('\%(\%(\|+\|s)\|=\|s\{2,}\|)\|zs'.escape(fname,'.\[*$^').'\%(\s\{2,}\|s\)','bc')
" call Decho("search result=".result." w:netrw_bannercnt="(exists("w:netrw_bannercnt")? w:netrw_bannercnt :
'N/A'))
if result <= 0 && exists("w:netrw_bannercnt")
exe "keepjumps ".w:netrw_bannercnt
endif

" call Dret("NetrwListStyle".(exists("w:netrw_liststyle")? ' : w:netrw_liststyle='w:netrw_liststyle : ""))
endfun

" -----
" s:NetrwBookmarkMenu: Uses menu priorities { { {2
" .2.[cnt] for bookmarks, and
" .3.[cnt] for history
" (see s:NetrwMenu())
fun! s:NetrwBookmarkMenu()
if !exists("s:netrw_menucnt")
return
endif
" call Dfunc("NetrwBookmarkMenu() histcnt=".g:netrw_dirhist_cnt." menucnt=".s:netrw_menucnt)

" the following test assures that gvim is running, has menus available, and has menus enabled.
if has("gui") && has("menu") && has("gui_running") && &go =~ 'm' && g:netrw_menu
if exists("g:NetrwTopLvlMenu")
" call Decho("removing ".g:NetrwTopLvlMenu."Bookmarks menu item(s)")
exe 'silent! unmenu '.g:NetrwTopLvlMenu.'Bookmarks'

```

```

exe 'silent! unmenu 'g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Bookmark\ Delete'
endif
if !exists("s:netrw_initbookhist")
call s:NetrwBookHistRead()
endif

" show bookmarked places
if exists("g:netrw_bookmarklist") && g:netrw_bookmarklist != []
let cnt= 1
for bmd in g:netrw_bookmarklist
" call Decho('silent! menu 'g:NetrwMenuPriority.'.2.'.cnt.'" "g:NetrwTopLvlMenu.'Bookmark.'.bmd.' :e '.bmd)
let bmd= escape(bmd, ' ')

" show bookmarks for goto menu
exe 'silent! menu 'g:NetrwMenuPriority.'.2.'.cnt.'" "g:NetrwTopLvlMenu.'Bookmarks.'.bmd.' :e '.bmd."\<cr>"

" show bookmarks for deletion menu
exe 'silent! menu 'g:NetrwMenuPriority.'.8.2.'.cnt.'" "g:NetrwTopLvlMenu.'Bookmarks\ and\
History.Bookmark\ Delete.'.bmd.' '.cnt."mB"
let cnt= cnt + 1
endfor

endif

" show directory browsing history
let cnt = g:netrw_dirhist_cnt
let first = 1
let histcnt = 0
while ( first || cnt != g:netrw_dirhist_cnt )
let histcnt = histcnt + 1
let priority = g:netrw_dirhist_cnt + histcnt
if exists("g:netrw_dirhist_{cnt}")
let histdir= escape(g:netrw_dirhist_{cnt}, './&? ')
" call Decho('silent! menu 'g:NetrwMenuPriority.'.3.'.priority.'" "g:NetrwTopLvlMenu.'History.'.histdir.' :e
'.histdir)
exe 'silent! menu 'g:NetrwMenuPriority.'.3.'.priority.'" "g:NetrwTopLvlMenu.'History.'.histdir.' :e
'.histdir."\<cr>"
endif
let first = 0
let cnt = ( cnt - 1 ) % g:netrw_dirhistmax
if cnt < 0
let cnt= cnt + g:netrw_dirhistmax
endif
endwhile

endif
" call Dret("NetrwBookmarkMenu")
endfun

```

```

" -----
" s:NetrwBrowseChgDir: constructs a new directory based on the current {{{2
"         directory and a new directory name. Also, if the
"         "new directory name" is actually a file,
"         NetrwBrowseChgDir() edits the file.
fun! s:NetrwBrowseChgDir(islocal,newdir,...)
" call Dfunc("s:NetrwBrowseChgDir(islocal=".a:islocal."> newdir<".a:newdir.">) a:0=".a:0."
curpos<".string(getpos("."))"> b:netrw_curdir<".(exists("b:netrw_curdir")? b:netrw_curdir : "").">")

if !exists("b:netrw_curdir")
" Don't try to change-directory: this can happen, for example, when netrw#ErrorMsg has been called
" and the current window is the NetrwMessage window.
" call Decho("(NetrwBrowseChgDir) b:netrw_curdir doesn't exist!")
" call Decho("getcwd<".getcwd().">")
" call Dredir("ls!")
" call Dret("s:NetrwBrowseChgDir")
return
endif

call s:NetrwOptionSave("s:")
call s:NetrwSafeOptions()
let nbcd_curpos      = netrw#NetrwSavePosn()
let s:nbcd_curpos_{bufnr('%')} = nbcd_curpos
let dirname          = substitute(b:netrw_curdir, '\\', '/', 'ge')
let newdir           = a:newdir
let dolockout        = 0

" set up o/s-dependent directory recognition pattern
if has("amiga")
let dirpat= '[\V:]$'
else
let dirpat= '[\V]$$'
endif
" call Decho("dirname<".dirname."> dirpat<".dirpat.">")

if dirname !~ dirpat
" apparently vim is "recognizing" that it is in a directory and
" is removing the trailing "/". Bad idea, so I put it back.
let dirname= dirname.'/'
" call Decho("adjusting dirname<".dirname.">")
endif

if newdir !~ dirpat
" -----
" edit a file:
" -----
" call Decho('case "handling a file": newdir<'.newdir.> !~ dirpat<'.dirpat.">')

```

```

if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict") && newdir !=
'^\(\|a:')
  let dirname= s:NetrwTreeDir()
  if dirname =~ '/'$
    let dirname= dirname.newdir
  else
    let dirname= s:NetrwTreeDir()."/".newdir
  endif
" call Decho("tree listing")
elseif newdir =~ '^(\|a:)'
  let dirname= newdir
else
  let dirname= s:ComposePath(dirname,newdir)
endif
" call Decho("handling a file: dirname<".dirname."> (a:0=".a:0.")")
" this lets NetrwBrowseX avoid the edit
if a:0 < 1
" call Decho("set up windows for editing<".fnameescape(dirname)."> didsplit=".(exists("s:didsplit")? s:didsplit :
"doesn't exist"))
  call s:NetrwOptionRestore("s:")
  if !exists("s:didsplit")
    if g:netrw_browse_split == 1
      new
      wincmd _
    elseif g:netrw_browse_split == 2
      rightb vert new
      wincmd |
    elseif g:netrw_browse_split == 3
      tabnew
    elseif g:netrw_browse_split == 4
      if s:NetrwPrevWinOpen(2) == 3
" call Dret("s:NetrwBrowseChgDir")
      return
      endif
    else
      " handling a file, didn't split, so remove menu
" call Decho("handling a file+didn't split, so remove menu")
      call s:NetrwMenu(0)
      " optional change to window
      if g:netrw_chgwin >= 1
        exe "keepjumps ".g:netrw_chgwin."wincmd w"
      endif
    endif
  endif
  " the point where netrw actually edits the (local) file
  " if its local only: LocalBrowseCheck() doesn't edit a file, but NetrwBrowse() will
  if a:islocal
" call Decho("edit local file: exe e! ".fnameescape(dirname))

```

```

exe "e! ".fnameescape(dirname)
else
" call Decho("remote file: NetrwBrowse will edit it")
endif
let dolockout= 1
endif

elseif newdir =~ '^/'
" -----
" just go to the new directory spec
" -----
" call Decho('case "just go to new directory spec": newdir<'.newdir.>')
let dirname= newdir
call s:SetRexDir(a:islocal,dirname)
call s:NetrwOptionRestore("s:")

elseif newdir == './'
" -----
" refresh the directory list
" -----
" call Decho('case "refresh directory listing": newdir == "./"')
call s:SetRexDir(a:islocal,dirname)

elseif newdir == '../'
" -----
" go up one directory
" -----
" call Decho('case "go up one directory": newdir == "../"')

if w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict")
" force a refresh
" call Decho("clear buffer<".expand("%")."> with :%d")
setlocal noro ma
" call Decho("setlocal noro ma")
keepjumps %d
endif

if has("amiga")
" amiga
" call Decho('case "go up one directory": newdir == "../" and amiga')
if a:islocal
let dirname= substitute(dirname,'^\(.*[:])\([^\|+/$)\,'1,')
let dirname= substitute(dirname,'/$',",")
else
let dirname= substitute(dirname,'^\(.*[:])\([^\|+/$)\,'1,')
endif
" call Decho("amiga: dirname<".dirname.> (go up one dir)")

```

```

else
  " unix or cygwin
" call Decho('case "go up one directory": newdir == "../" and unix or cygwin')
if a:islocal
  let dirname= substitute(dirname,'^\(.*\)^\(^\|+\)/$',\1,")
  if dirname == ""
    let dirname= '/'
  endif
else
  let dirname= substitute(dirname,'^\(a\+://\{-\}\{1,2\}\)\(^\|+\)/$',\1\2,")
endif
" call Decho("unix: dirname<".dirname."> (go up one dir)")
endif
call s:SetRexDir(a:islocal,dirname)

elseif exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict")
" call Decho('case liststyle is TREELIST and w:netrw_treedict exists')
" force a refresh (for TREELIST, wait for NetrwTreeDir() to force the refresh)
setlocal noro ma
" call Decho("setlocal noro ma")
if !(exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir"))
" call Decho("clear buffer<".expand("% ")."> with :%d")
  keepjumps %d
endif
let treedir = s:NetrwTreeDir()
let s:treecurpos = nbcd_curpos
let haskey= 0
" call Decho("w:netrw_treedict<".string(w:netrw_treedict).">")

" search treedict for tree dir as-is
if has_key(w:netrw_treedict,treedir)
" call Decho('....searched for treedir<'.treedir.> : found it!')
  let haskey= 1
else
" call Decho('....searched for treedir<'.treedir.> : not found')
endif

" search treedict for treedir with a / appended
if !haskey && treedir !~ '/'
  if has_key(w:netrw_treedict,treedir."/")
    let treedir= treedir. "/"
" call Decho('....searched for treedir<'.treedir.> found it!')
    let haskey = 1
  else
" call Decho('....searched for treedir<'.treedir.'/> : not found')
  endif
endif

```

```

" search treedict for treedir with any trailing / elided
if !haskey && treedir =~ '/'$'
  let treedir= substitute(treedir,'/','$',",")
  if has_key(w:netrw_treedict,treedir)
"   call Decho('....searched.for treedir<'treedir.'> found it!')
    let haskey = 1
  else
"   call Decho('....searched for treedir<'treedir.'> : not found')
  endif
endif

if haskey
  " close tree listing for selected subdirectory
"   call Decho("closing selected subdirectory<".dirname.">")
  call remove(w:netrw_treedict,treedir)
"   call Decho("removed   entry<".dirname."> from treedict")
"   call Decho("yielding treedict<".string(w:netrw_treedict).">")
  let dirname= w:netrw_treetop
  else
    " go down one directory
    let dirname= substitute(treedir,'/*$',',',"")
"   call Decho("go down one dir: treedir<".treedir.">")
  endif
  call s:SetRexDir(a:islocal,dirname)

else
  " go down one directory
  let dirname= s:ComposePath(dirname,newdir)
"   call Decho("go down one dir: dirname<".dirname."> newdir<".newdir.">")
  call s:SetRexDir(a:islocal,dirname)
endif

call s:NetrwOptionRestore("s:")
if dolockout
"   call Decho("doing modification lockout settings: ma nomod noro")
  setlocal ma nomod noro
"   call Decho("setlocal ma nomod noro")
endif

"   call Dret("s:NetrwBrowseChgDir <".dirname."> : curpos<".string(getpos(".")).">")
return dirname
endfun

" -----
" s:NetrwBrowseX: allows users to write custom functions to operate on {{2
"   files given their extension. Passes 0=local, 1=remote
fun! netrw#NetrwBrowseX(fname,remote)
"   call Dfunc("NetrwBrowseX(fname<".a:fname."> remote="a:remote)")

```

```

" set up the filename
" (lower case the extension, make a local copy of a remote file)
let exten= substitute(a:fname,'*\.(\{-}\)',\1,'e')
if has("win32") || has("win95") || has("win64") || has("win16")
  let exten= substitute(exten,'^.*$',\L&\E',")
endif
" call Decho("exten<".exten.">")

" seems kde systems often have gnome-open due to dependencies, even though
" gnome-open's subsidiary display tools are largely absent. Kde systems
" usually have "kdeinit" running, though... (tnx Mikolaj Machowski)
if !exists("s:haskdeinit")
if has("unix")
  let s:haskdeinit= system("ps -e") =~ 'kdeinit'
  if v:shell_error
    let s:haskdeinit = 0
  endif
else
  let s:haskdeinit= 0
endif
" call Decho("setting s:haskdeinit="s:haskdeinit)
endif

if a:remote == 1
" create a local copy
" call Decho("a:remote="a:remote": create a local copy of <"a:fname.">")
setlocal bh=delete
call netrw#NetRead(3,a:fname)
" attempt to rename tempfile
let basename= substitute(a:fname,'^\(.*\)\/\(.*\)\.\([^\.]*)$',\2,")
let newname= substitute(s:netrw_tmpfile,'^\(.*\)\/\(.*\)\.\([^\.]*)$',\1/'basename.\3,")
" call Decho("basename<".basename.">")
" call Decho("newname <".newname.">")
if rename(s:netrw_tmpfile,newname) == 0
" renaming succeeded
let fname= newname
else
" renaming failed
let fname= s:netrw_tmpfile
endif
else
let fname= a:fname
endif
" call Decho("fname<".fname.">")
" call Decho("exten<".exten.">")
"."netrwFileHandlers#NFH_".exten."():exists="exists("netrwFileHandlers#NFH_".exten))

```

```

" set up redirection
if &srr =~ "%s"
if (has("win32") || has("win95") || has("win64") || has("win16"))
  let redir= substitute(&srr,"%s","nul","")
else
  let redir= substitute(&srr,"%s","/dev/null","")
endif
elseif (has("win32") || has("win95") || has("win64") || has("win16"))
  let redir= &srr . "nul"
else
  let redir= &srr . "/dev/null"
endif
" call Decho("redir{" .redir."} srr{" .&srr."}")

" extract any viewing options. Assumes that they're set apart by quotes.
if exists("g:netrw_browse_viewer")
if g:netrw_browse_viewer =~ '\s'
  let viewer = substitute(g:netrw_browse_viewer,'\s.*$',"")
  let viewopt = substitute(g:netrw_browse_viewer,'\^|S|+\s*',"")." "
  let oviewer = "
  let cnt = 1
  while !executable(viewer) && viewer != oviewer
    let viewer = substitute(g:netrw_browse_viewer,'\^(^|S|+\s|+){'.cnt.'}\S|+)(.*)$',\1,"")
    let viewopt = substitute(g:netrw_browse_viewer,'\^(^|S|+\s|+){'.cnt.'}\S|+)(.*)$',\3,"")." "
    let cnt = cnt + 1
    let oviewer = viewer
  " call Decho("!exe: viewer<".viewer."> viewopt<".viewopt.">")
  endwhile
else
  let viewer = g:netrw_browse_viewer
  let viewopt = ""
endif
" call Decho("viewer<".viewer."> viewopt<".viewopt.">")
endif

" execute the file handler
if exists("g:netrw_browse_viewer") && g:netrw_browse_viewer == '!
" call Decho("g:netrw_browse_viewer<".g:netrw_browse_viewer.">")
let ret= netrwFileHandlers#Invoke(exten,fname)

elseif exists("g:netrw_browse_viewer") && executable(viewer)
" call Decho("g:netrw_browse_viewer<".g:netrw_browse_viewer.">")
" call Decho("exe silent !".viewer." ".viewopt.shellescape(fname,1).redir)
exe "silent !".viewer." ".viewopt.shellescape(fname,1).redir
let ret= v:shell_error

elseif has("win32") || has("win64")
" call Decho('exe silent !start rundll32 url.dll,FileProtocolHandler '.shellescape(fname,1))

```

```

exe 'silent !start rundll32 url.dll,FileProtocolHandler '.shellescape(fname,1)
call inputsave()|call input("Press <cr> to continue")|call inputrestore()
let ret= v:shell_error

elseif has("unix") && executable("gnome-open") && !s:haskdeinit
" call Decho("exe silent !gnome-open ".shellescape(fname,1)." ".redir)
exe "silent !gnome-open ".shellescape(fname,1).redir
let ret= v:shell_error

elseif has("unix") && executable("kfmclient") && s:haskdeinit
" call Decho("exe silent !kfmclient exec ".shellescape(fname,1)." ".redir)
exe "silent !kfmclient exec ".shellescape(fname,1)." ".redir
let ret= v:shell_error

elseif has("macunix") && executable("open")
" call Decho("exe silent !open ".shellescape(fname,1)." ".redir)
exe "silent !open ".shellescape(fname,1)." ".redir
let ret= v:shell_error

else
" netrwFileHandlers#Invoke() always returns 0
let ret= netrwFileHandlers#Invoke(exten,fname)
endif

" if unsuccessful, attempt netrwFileHandlers#Invoke()
if ret
let ret= netrwFileHandlers#Invoke(exten,fname)
endif

" restoring redraw! after external file handlers
redraw!

" cleanup: remove temporary file,
"   delete current buffer if success with handler,
"   return to prior buffer (directory listing)
"   Feb 12, 2008: had to de-activate removal of
"   temporary file because it wasn't getting seen.
" if a:remote == 1 && fname != a:fname
" call Decho("deleting temporary file<" .fname.">")
" call s:NetrwDelete(fname)
" endif

if a:remote == 1
setlocal bh=delete bt=nofile
if g:netrw_use_noswf
setlocal noswf
endif
exe "norm! \<c-o>"

```

```

" redraw!
endif

" call Dret("NetrwBrowseX")
endfun

" -----
" netrw#Explore: launch the local browser in the directory of the current file {{{2
"     indx: == -1: Nexplore
"         == -2: Pexplore
"         == +: this is overloaded:
"             * If Nexplore/Pexplore is in use, then this refers to the
"               indx'th item in the w:netrw_explore_list[] of items which
"               matched the */pattern */pattern */pattern */pattern
"             * If Hexplore or Vexplore, then this will override
"               g:netrw_winsize to specify the qty of rows or columns the
"               newly split window should have.
"     dosplit==0: the window will be split iff the current file has been modified
"     dosplit==1: the window will be split before running the local browser
"     style == 0: Explore   style == 1: Explore!
"         == 2: Hexplore  style == 3: Hexplore!
"         == 4: Vexplore  style == 5: Vexplore!
"         == 6: Texplore
"DechoTabOn
fun! netrw#Explore(indx,dosplit,style,...)
" call Dfunc("netrw#Explore(indx=".a:indx." dosplit=".a:dosplit." style=".a:style.",a:1<".a:1.">)
&modified=".&modified." a:0="a:0)
if !exists("b:netrw_curdir")
let b:netrw_curdir= getcwd()
" call Decho("set b:netrw_curdir<"b:netrw_curdir."> (used getcwd)")
endif
let curfile= b:netrw_curdir
" call Decho("curfile<".curfile.">")

" save registers
silent! let keepregstar = @*
silent! let keepregplus = @+
silent! let keepregslash= @/

" if dosplit or file has been modified
if a:dosplit || &modified || a:style == 6
" call Decho("case: dosplit=".a:dosplit." modified=".&modified." a:style=".a:style)
call s:SaveWinVars()
let winsize= g:netrw_winsize
if a:indx > 0
let winsize= a:indx
endif

```

```

if a:style == 0 " Explore, Sexplore
" call Decho("style=0: Explore or Sexplore")
exe winsize."wincmd s"

elseif a:style == 1 "Explore!, Sexplore!
" call Decho("style=1: Explore! or Sexplore!")
exe winsize."wincmd v"

elseif a:style == 2 " Hexplore
" call Decho("style=2: Hexplore")
exe "bel ".winsize."wincmd s"

elseif a:style == 3 " Hexplore!
" call Decho("style=3: Hexplore!")
exe "abo ".winsize."wincmd s"

elseif a:style == 4 " Vexplore
" call Decho("style=4: Vexplore")
exe "lefta ".winsize."wincmd v"

elseif a:style == 5 " Vexplore!
" call Decho("style=5: Vexplore!")
exe "rightb ".winsize."wincmd v"

elseif a:style == 6 " Texplore
call s:SaveBufVars()
" call Decho("style = 6: Texplore")
tabnew
call s:RestoreBufVars()
endif
call s:RestoreWinVars()
endif
norm! 0

if a:0 > 0
" call Decho("case [a:0=".a:0.]">0: a:1<".a:1.">")
if a:1 =~ '\~' && (has("unix") || (exists("g:netrw_cygwin") && g:netrw_cygwin))
let dirname= substitute(a:1,'\~',expand("$HOME"),)
" call Decho("using dirname<".dirname."> (case: ~ && unix|cygwin)")
elseif a:1 == '.'
let dirname= exists("b:netrw_curdir"? b:netrw_curdir : getcwd()
if dirname !~ '/'$
let dirname= dirname."/"/
endif
" call Decho("using dirname<".dirname."> (case: ".(exists("b:netrw_curdir"? "b:netrw_curdir" : "getcwd()").)")")
elseif a:1 =~ '\$'
let dirname= expand(a:1)
else

```

```

let dirname= a:1
" call Decho("using dirname<".dirname.">")
endif
else
" clear explore
" call Decho("clearing explore variables")
2match none
if exists("s:explore_match") |unlet s:explore_match |endif
if exists("s:explore_indx") |unlet s:explore_indx |endif
if exists("s:dirstarstar") |unlet s:dirstarstar |endif
if exists("s:dirstarstar") |unlet s:dirstarstar |endif
if exists("w:netrw_explore_indx") |unlet w:netrw_explore_indx |endif
if exists("w:netrw_explore_listlen")|unlet w:netrw_explore_listlen|endif
if exists("w:netrw_explore_list") |unlet w:netrw_explore_list |endif
if exists("w:netrw_explore_bufnr") |unlet w:netrw_explore_bufnr |endif
" redraw!
echo " "
echo " "
" call Dret("netrw#Explore : cleared list")
return
endif

if dirname =~ '\^*\/'
" handle .../~/filepat
" call Decho("case Explore .../~/filepat")
let prefixdir= substitute(dirname,'\(\{-}\)\^*.*$',\1,"")
if prefixdir =~ '^/' || (prefixdir =~ '^a:/' && (has("win32") || has("win95") || has("win64") || has("win16")))
let b:netrw_curdir = prefixdir
else
let b:netrw_curdir= getcwd().'/'.prefixdir
endif
let dirname= substitute(dirname,'\(\{-}\)\^*\/.*$',\1,"")
let starpat= 4;
" call Decho("pwd<".getcwd()."> dirname<".dirname.">")
" call Decho("case Explore ../~/filepat (starpat=".starpat.")")

elseif dirname =~ '\^*\/'
" starpat=1: Explore */pattern (current directory only search for files containing pattern)
" call Decho("case Explore */pattern")
let pattern= substitute(dirname,'\^*\/\(.*)$',\1,"")
let starpat= 1
" call Decho("Explore */pat: (starpat=".starpat.") dirname<".dirname."> -> pattern<".pattern.">")
if &hls | let keepregslash= s:ExplorePatHls(pattern) | endif

elseif dirname =~ '\^*\/'
" starpat=2: Explore **//pattern (recursive descent search for files containing pattern)
" call Decho("case Explore **//pattern")
let pattern= substitute(dirname,'\^*\/',"")

```

```

let starpat= 2
" call Decho("Explore **//pat: (starpat=".starpat.") dirname<".dirname."> -> pattern<".pattern.">")

elseif dirname =~ '\^*/'
" starpat=3: Explore */filepat (search in current directory for filenames matching filepat)
let starpat= 3
" call Decho("case Explore */filepat (starpat=".starpat.")")

elseif dirname =~ '\^*\^*/'
" starpat=4: Explore **/filepat (recursive descent search for filenames matching filepat)
let starpat= 4
" call Decho("case Explore **/filepat (starpat=".starpat.")")
else
let starpat= 0
endif

if starpat == 0 && a:indx >= 0
" [Explore Hexplore Vexplore Sexplore] [dirname]
" call Decho("case dirname<".dirname."> a:indx=".a:indx.": Explore Hexplore Vexplore Sexplore")
if dirname == ""
let dirname= substitute(expand("%:~"),'\^(\.[^/])\^$',\1,'e')
endif
if dirname =~ '^scp:' || dirname =~ '^ftp:'
" call Decho("calling NetrwBrowse(0,dirname<".dirname.">)")
call s:NetrwBrowse(0,dirname)
else
if dirname == ""|let dirname= getcwd()endif
" call Decho("calling LocalBrowseCheck(dirname<".dirname.">)")
call netrw#LocalBrowseCheck(dirname)
endif

" call Decho("curfile<".curfile.">")
if has("win32") || has("win95") || has("win64") || has("win16")
call search('\<'.substitute(curfile,'\^(\.[^/])\^$',\1,'e').'\>',cW)
else
call search('\<'.substitute(curfile,'\^(\.[^/])\^$',\1,'e').'\>',cW)
endif

" starpat=1: Explore */pattern (current directory only search for files containing pattern)
" starpat=2: Explore **//pattern (recursive descent search for files containing pattern)
" starpat=3: Explore */filepat (search in current directory for filenames matching filepat)
" starpat=4: Explore **/filepat (recursive descent search for filenames matching filepat)
elseif a:indx <= 0
" Nexplore, Pexplore, Explore: handle starpat
" call Decho("case Nexplore, Pexplore, <s-down>, <s-up>: starpat=".starpat." a:indx=".a:indx)
if !mapcheck("<s-up>","n") && !mapcheck("<s-down>","n") && exists("b:netrw_curdir")
" call Decho("set up <s-up> and <s-down> maps")
let s:didstarstar= 1

```

```

nnoemap <buffer> <silent> <s-up> :Pexplore<cr>
nnoemap <buffer> <silent> <s-down> :Nexplore<cr>
endif

if has("path_extra")
" call Decho("starpat=".starpat.": has +path_extra")
if !exists("w:netrw_explore_indx")
let w:netrw_explore_indx= 0
endif

let indx = a:indx
" call Decho("starpat=".starpat.": set indx= [a:indx=".indx."]")

if indx == -1
" Nexplore
" call Decho("case Nexplore with starpat=".starpat.": (indx=".indx.")")
if !exists("w:netrw_explore_list") " sanity check
call netrw#ErrorMsg(s:WARNING,"using Nexplore or <s-down> improperly; see help for netrw-starstar",40)
silent! let @* = keepregstar
silent! let @+ = keepregstar
silent! let @/ = keepregslash
" call Dret("netrw#Explore")
return
endif
let indx= w:netrw_explore_indx
if indx < 0 | let indx= 0 | endif
if indx >= w:netrw_explore_listlen | let indx= w:netrw_explore_listlen - 1 | endif
let curfile= w:netrw_explore_list[indx]
" call Decho("indx=".indx." curfile<".curfile.">")
while indx < w:netrw_explore_listlen && curfile == w:netrw_explore_list[indx]
let indx= indx + 1
" call Decho("indx=".indx." (Nexplore while loop)")
endwhile
if indx >= w:netrw_explore_listlen | let indx= w:netrw_explore_listlen - 1 | endif
" call Decho("Nexplore: indx= [w:netrw_explore_indx=".w:netrw_explore_indx."]=".indx)

elseif indx == -2
" Pexplore
" call Decho("case Pexplore with starpat=".starpat.": (indx=".indx.")")
if !exists("w:netrw_explore_list") " sanity check
call netrw#ErrorMsg(s:WARNING,"using Pexplore or <s-up> improperly; see help for netrw-starstar",41)
silent! let @* = keepregstar
silent! let @+ = keepregstar
silent! let @/ = keepregslash
" call Dret("netrw#Explore")
return
endif
let indx= w:netrw_explore_indx

```

```

if indx < 0          | let indx= 0          | endif
if indx >= w:netrw_explore_listlen | let indx= w:netrw_explore_listlen - 1 | endif
let curfile= w:netrw_explore_list[indx]
" call Decho("indx=".indx." curfile<".curfile.">")
while indx >= 0 && curfile == w:netrw_explore_list[indx]
  let indx= indx - 1
" call Decho("indx=".indx." (Pexplore while loop)")
endwhile
if indx < 0          | let indx= 0          | endif
" call Decho("Pexplore: indx= [w:netrw_explore_indx=".w:netrw_explore_indx."]=".indx)

else
" Explore -- initialize
" build list of files to Explore with Nexplore/Pexplore
" call Decho("starpat=".starpat.": case Explore: initialize (indx=".indx."")
let w:netrw_explore_indx= 0
if !exists("b:netrw_curdir")
  let b:netrw_curdir= getcwd()
endif
" call Decho("starpat=".starpat.": b:netrw_curdir<".b:netrw_curdir.">")

" switch on starpat to build the w:netrw_explore_list of files
if starpat == 1
" starpat=1: Explore */pattern (current directory only search for files containing pattern)
" call Decho("starpat=".starpat.": build */pattern list")
" call Decho("pattern<".pattern.">")
exe "vimgrep /".pattern."/gj ".fnameescape(b:netrw_curdir)."/*"
let w:netrw_explore_list = map(getqflist(), 'bufname(v:val.bufnr)')
if &hls | let keepregslash= s:ExplorePatHls(pattern) | endif

elseif starpat == 2
" starpat=2: Explore **/pattern (recursive descent search for files containing pattern)
" call Decho("starpat=".starpat.": build **/pattern list")
try
  exe "silent vimgrep /".pattern."/gj " . "**/*"
catch /^Vim\%((\a\+)\)\=:E480/
  call netrw#ErrorMsg(s:WARNING, 'no files matched pattern<'.pattern.>', 45)
  if &hls | let keepregslash= s:ExplorePatHls(pattern) | endif
  silent! let @* = keepregstar
  silent! let @+ = keepregstar
  silent! let @/ = keepregslash
" call Dret("netrw#Explore : no files matched pattern")
return
endtry
let s:netrw_curdir = b:netrw_curdir
let w:netrw_explore_list = getqflist()
let w:netrw_explore_list = map(w:netrw_explore_list, 's:netrw_curdir."/".bufname(v:val.bufnr)')

```

```

elseif starpat == 3
  " starpat=3: Explore */filepat (search in current directory for filenames matching filepat)
  " call Decho("starpat=".starpat.": build */filepat list")
  let filepat= substitute(dirname,'\*/',"")
  let filepat= substitute(filepat,'^[%#<]','\&',"")
  " call Decho("b:netrw_curdir<".b:netrw_curdir.">")
  " call Decho("filepat<".filepat.">")
  let w:netrw_explore_list= split(expand(b:netrw_curdir."/".filepat),'\n')
  if &hls | let keepregslash= s:ExplorePatHls(filepat) | endif

elseif starpat == 4
  " starpat=4: Explore **/filepat (recursive descent search for filenames matching filepat)
  " call Decho("starpat=".starpat.": build **/filepat list")
  let w:netrw_explore_list= split(expand(b:netrw_curdir."/".dirname),'\n')
  if &hls | let keepregslash= s:ExplorePatHls(dirname) | endif
endif " switch on starpat to build w:netrw_explore_list

let w:netrw_explore_listlen = len(w:netrw_explore_list)
" call Decho("w:netrw_explore_list<".string(w:netrw_explore_list).">")
" call Decho("w:netrw_explore_listlen=".w:netrw_explore_listlen)

if w:netrw_explore_listlen == 0 || (w:netrw_explore_listlen == 1 && w:netrw_explore_list[0] =~ "\*\/")
  call netrw#ErrorMsg(s:WARNING,"no files matched",42)
  silent! let @* = keepregstar
  silent! let @+ = keepregstar
  silent! let @/ = keepregslash
" call Dret("netrw#Explore : no files matched")
  return
endif
endif " if indx ... endif

" NetrwStatusLine support - for exploring support
let w:netrw_explore_indx= indx
" call Decho("explorelist<".join(w:netrw_explore_list,',')."> len=".w:netrw_explore_listlen)

" wrap the indx around, but issue a note
if indx >= w:netrw_explore_listlen || indx < 0
" call Decho("wrap indx (indx=".indx." listlen=".w:netrw_explore_listlen.")")
let indx = (indx < 0)? ( w:netrw_explore_listlen - 1 ) : 0
let w:netrw_explore_indx= indx
call netrw#ErrorMsg(s:NOTE,"no more files match Explore pattern",43)
endif

exe "let dirfile= w:netrw_explore_list["indx. "]"
" call Decho("dirfile=w:netrw_explore_list[indx=".indx."]= <".dirfile.">")
let newdir= substitute(dirfile,'[/]*$',",e")
" call Decho("newdir<".newdir.">")

```

```

" call Decho("calling LocalBrowseCheck(newdir<".newdir.">")
call netrw#LocalBrowseCheck(newdir)
if !exists("w:netrw_liststyle")
let w:netrw_liststyle= g:netrw_liststyle
endif
if w:netrw_liststyle == s:THINLIST || w:netrw_liststyle == s:LONGLIST
call search('\^\.substitute(dirfile,"^.*"/,"","").\>',"W")
else
call search('\<\.substitute(dirfile,"^.*"/,"","").\>',"w")
endif
let w:netrw_explore_mtchcnt = indx + 1
let w:netrw_explore_bufnr = bufnr("% ")
let w:netrw_explore_line = line(".")
call s:SetupNetrwStatusLine('%f %h%m%r%=%9*% {NetrwStatusLine()})
" call Decho("explore: mtchcnt=".w:netrw_explore_mtchcnt." bufnr=".w:netrw_explore_bufnr."
line#".w:netrw_explore_line)

else
" call Decho("your vim does not have +path_extra")
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:WARNING,"your vim needs the +path_extra feature for Exploring with **!",44)
endif
silent! let @* = keepregstar
silent! let @+ = keepregstar
silent! let @/ = keepregslash
" call Dret("netrw#Explore : missing +path_extra")
return
endif

else
" call Decho("case Explore newdir<".dirname.">")
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && dirname =~ '/'
silent! unlet w:netrw_treedict
silent! unlet w:netrw_treetop
endif
let newdir= dirname
if !exists("b:netrw_curdir")
call netrw#LocalBrowseCheck(getcwd())
else
call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,newdir))
endif
endif

" visual display of **/ **// */ Exploration files
if exists("w:netrw_explore_indx") && exists("b:netrw_curdir")
if !exists("s:explore_prvdir") || s:explore_prvdir != b:netrw_curdir
" only update match list if current directory isn't the same as before
let s:explore_prvdir = b:netrw_curdir

```

```

let s:explore_match = ""
let dirlen      = strlen(b:netrw_curdir)
if b:netrw_curdir !~ '/'$'
  let dirlen= dirlen + 1
endif
let prvfname= ""
for fname in w:netrw_explore_list
"  call Decho("fname<".fname.">")
"COMBAK -- g:netrw_markfileesc.""g:netrw_markfileesc."" ???
  if fname =~ '^'.b:netrw_curdir
    if s:explore_match == ""
      let s:explore_match= \<'.escape(strpart(fname,dirlen),g:netrw_markfileesc).\>'
    else
      let s:explore_match= s:explore_match.\|<'.escape(strpart(fname,dirlen),g:netrw_markfileesc).\>'
    endif
  elseif fname !~ '^/' && fname != prvfname
    if s:explore_match == ""
      let s:explore_match= \<'.escape(fname,g:netrw_markfileesc).\>'
    else
      let s:explore_match= s:explore_match.\|<'.escape(fname,g:netrw_markfileesc).\>'
    endif
  endif
  let prvfname= fname
endfor
"  call Decho("explore_match<".s:explore_match.">")
exe "2match netrwMarkFile /".s:explore_match."/\"
endif
echo "<s-up>==Pexplore <s-down>==Nexplore"
else
2match none
if exists("s:explore_match") | unlet s:explore_match | endif
if exists("s:explore_prvdir") | unlet s:explore_prvdir | endif
echo " "
"  call Decho("cleared explore match list")
endif

silent! let @* = keepregstar
silent! let @+ = keepregstar
silent! let @/ = keepregslash
"  call Dret("netrw#Explore : @/<".@/.">")
endfun

" -----
" s:NetrwHide: this function is invoked by the "a" map for browsing {{{2
"   and switches the hiding mode. The actual hiding is done by
"   s:NetrwListHide().
"   g:netrw_hide= 0: show all
"   1: show not-hidden files

```

```

"                2: show hidden files only
fun! s:NetrwHide(islocal)
" call Dfunc("NetrwHide(islocal=".a:islocal.") g:netrw_hide=".g:netrw_hide)
let svpos= netrw#NetrwSavePosn()

if exists("s:netrwmarkfilelist_{bufnr("%')}")
" call Decho(((g:netrw_hide == 1)? "unhide" : "hide")." files in
markfilelist<".string(s:netrwmarkfilelist_{bufnr("%')}).">")
" call Decho("g:netrw_list_hide<"g:netrw_list_hide.">")

" hide the files in the markfile list
for fname in s:netrwmarkfilelist_{bufnr("%')}
" call Decho("match(g:netrw_list_hide<"g:netrw_list_hide.>
fname<<'\.fname.\>>)='.match(g:netrw_list_hide,\<'.fname.\>')." isk=".&isk)
if match(g:netrw_list_hide,\<'.fname.\>) != -1
" remove fname from hiding list
let g:netrw_list_hide= substitute(g:netrw_list_hide,'.\<'.escape(fname,g:netrw_fname_escape).\>..',"")
let g:netrw_list_hide= substitute(g:netrw_list_hide,',,',';g')
let g:netrw_list_hide= substitute(g:netrw_list_hide,'^\|,$','"')
" call Decho("unhide: g:netrw_list_hide<"g:netrw_list_hide.">")
else
" append fname to hiding list
if exists("g:netrw_list_hide") && g:netrw_list_hide != ""
let g:netrw_list_hide= g:netrw_list_hide.'.\<'.escape(fname,g:netrw_fname_escape).\>'
else
let g:netrw_list_hide= '\<'.escape(fname,g:netrw_fname_escape).\>'
endif
" call Decho("hide: g:netrw_list_hide<"g:netrw_list_hide.">")
endif
endfor
call s:NetrwUnmarkList(bufnr("%'),b:netrw_curdir)
let g:netrw_hide= 1

else

" switch between show-all/show-not-hidden/show-hidden
let g:netrw_hide=(g:netrw_hide+1)%3
exe "norm! 0"
if g:netrw_hide && g:netrw_list_hide == ""
call netrw#ErrorMsg(s:WARNING,"your hiding list is empty!",49)
" call Dret("NetrwHide")
return
endif
endif

call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,./))
call netrw#NetrwRestorePosn(svpos)
" call Dret("NetrwHide")

```



```

endif
" insure that the home directory exists
" call Decho("picked home<".home.">")
if !sdirectory(home)
if exists("g:netrw_mkdir")
" call Decho("home<".home."> isn't a directory -- making it now with g:netrw_mkdir<".g:netrw_mkdir.">")
" call Decho("system("g:netrw_mkdir." ".s:Escape(home).)")")
call system(g:netrw_mkdir." ".s:Escape(home))
else
" call Decho("home<".home."> isn't a directory -- making it now with mkdir()")
call mkdir(home)
endif
endif
let g:netrw_home= home
" call Dret("s:NetrwHome <".home.">")
return home
endfun

" -----
" s:NetrwLeftmouse: handles the <leftmouse> when in a netrw browsing window {{{2
fun! s:NetrwLeftmouse(islocal)
" call Dfunc("s:NetrwLeftmouse(islocal=".a:islocal.")")
if a:islocal
if exists("b:netrw_curdir")
call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,s:NetrwGetWord()))
endif
else
if exists("b:netrw_curdir")
call s:NetrwBrowse(0,s:NetrwBrowseChgDir(0,s:NetrwGetWord()))
endif
endif
" call Dret("s:NetrwLeftmouse")
endfun

" -----
" s:NetrwListHide: uses [range]g~...~d to delete files that match comma {{{2
" separated patterns given in g:netrw_list_hide
fun! s:NetrwListHide()
" call Dfunc("NetrwListHide() hide=".g:netrw_hide." listhide<".g:netrw_list_hide.">")

" find a character not in the "hide" string to use as a separator for :g and :v commands
" How-it-works: take the hiding command, convert it into a range. Duplicate
" characters don't matter. Remove all such characters from the '~/...90'
" string. Use the first character left as a separator character.
let listhide= g:netrw_list_hide
let sep = strpart(substitute('/~@#$$%^&*{ };;<.>?[1234567890','[.escape(listhide,'-]^\').'],'ge'),1,1)
" call Decho("sep=".sep)

```

```

while listhide != ""
if listhide =~ '|'
let hide = substitute(listhide, '.*$', 'e')
let listhide = substitute(listhide, '^.\{-},\{.*\}$, \1, 'e')
else
let hide = listhide
let listhide = ""
endif

" Prune the list by hiding any files which match
if g:netrw_hide == 1
" call Decho("hiding<".hide."> listhide<".listhide.">")
exe 'silent keepjumps '.w:netrw_bannercnt.',$g'.sep.hide.sep.'d'
elseif g:netrw_hide == 2
" call Decho("showing<".hide."> listhide<".listhide.">")
exe 'silent keepjumps '.w:netrw_bannercnt.',$g'.sep.hide.sep.'s@^@ /-KEEP-/ @'
endif
endwhile
if g:netrw_hide == 2
exe 'silent keepjumps '.w:netrw_bannercnt.',$v@^ /-KEEP-/ @d'
exe 'silent keepjumps '.w:netrw_bannercnt.',$s@^\%( /-KEEP-/ \)\+@ @e'
endif

" call Dret("NetrwListHide")
endfun

" -----
" NetrwHideEdit: allows user to edit the file/directory hiding list
fun! s:NetrwHideEdit(islocal)
" call Dfunc("NetrwHideEdit(islocal=".a:islocal.")")

" save current cursor position
let svpos= netrw#NetrwSavePosn()

" get new hiding list from user
call inputsave()
let newhide= input("Edit Hiding List: ",g:netrw_list_hide)
call inputrestore()
let g:netrw_list_hide= newhide
" call Decho("new g:netrw_list_hide<".g:netrw_list_hide.">")

" refresh the listing
silent call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,"./"))

" restore cursor position
call netrw#NetrwRestorePosn(svpos)

" call Dret("NetrwHideEdit")

```

```

endfun

" -----
" NetSortSequence: allows user to edit the sorting sequence
fun! s:NetSortSequence(islocal)
" call Dfunc("NetSortSequence(islocal=".a:islocal.")")

let svpos= netrw#NetrwSavePosn()
call inputsave()
let newsortseq= input("Edit Sorting Sequence: ",g:netrw_sort_sequence)
call inputrestore()

" refresh the listing
let g:netrw_sort_sequence= newsortseq
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,./))
call netrw#NetrwRestorePosn(svpos)

" call Dret("NetSortSequence")
endfun

" -----
" s:NetrwMakeDir: this function makes a directory (both local and remote) {{{2
fun! s:NetrwMakeDir(usrhost)
" call Dfunc("NetrwMakeDir(usrhost<".a:usrhost.">")")

" get name of new directory from user. A bare <CR> will skip.
" if its currently a directory, also request will be skipped, but with
" a message.
call inputsave()
let newdirname= input("Please give directory name: ")
call inputrestore()
" call Decho("newdirname<".newdirname.">")

if newdirname == ""
" call Dret("NetrwMakeDir : user aborted with bare <cr>")
return
endif

if a:usrhost == ""
" call Decho("local mkdir")

" Local mkdir:
" sanity checks
let fullnewdir= b:netrw_curdir./'.newdirname
" call Decho("fullnewdir<".fullnewdir.">")
if isdirectory(fullnewdir)
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:WARNING,"<".newdirname."> is already a directory!",24)

```

```

endif
" call Dret("NetrwMakeDir : directory<".newdirname."> exists previously")
return
endif
if s:FileReadable(fullnewdir)
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:WARNING,"<".newdirname."> is already a file!",25)
endif
" call Dret("NetrwMakeDir : file<".newdirname."> exists previously")
return
endif

" requested new local directory is neither a pre-existing file or
" directory, so make it!
if exists("*mkdir")
call mkdir(fullnewdir,"p")
else
let netrw_origdir= s:NetrwGetcwd(1)
exe 'keepjumps lcd '.fnameescape(b:netrw_curdir)
" call Decho("netrw_origdir<".netrw_origdir.">: lcd b:netrw_curdir<".fnameescape(b:netrw_curdir).">")
" call Decho("exe silent! !" :g:netrw_local_mkdir.' '.shellescape(newdirname,1))
exe "silent! !" :g:netrw_local_mkdir.' '.shellescape(newdirname,1)
if !g:netrw_keepdir
exe 'keepjumps lcd '.fnameescape(netrw_origdir)
" call Decho("netrw_keepdir=" :g:netrw_keepdir." : keepjumps lcd ".fnameescape(netrw_origdir)."
getcwd<".getcwd().">")
endif
endif

if v:shell_error == 0
" refresh listing
" call Decho("refresh listing")
let svpos= netrw#NetrwSavePosn()
call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,'/'))
call netrw#NetrwRestorePosn(svpos)
elseif !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"unable to make directory<".newdirname.">",26)
endif
" redraw!

elseif !exists("b:netrw_method") || b:netrw_method == 4
" Remote mkdir:
" call Decho("remote mkdir")
let mkdircmd = s:MakeSshCmd(g:netrw_mkdir_cmd)
let newdirname= substitute(b:netrw_curdir,'^\%(\{-}\)\{3}\(.*\)$','\1',")newdirname
" call Decho("exe silent! !" :g:netrw_local_mkdir.' '.shellescape(newdirname,1))
exe "silent! !" :g:netrw_local_mkdir.' '.shellescape(newdirname,1)
if v:shell_error == 0

```

```

" refresh listing
let svpos= netrw#NetrwSavePosn()
call s:NetrwRefresh(0,s:NetrwBrowseChgDir(0,'./'))
call netrw#NetrwRestorePosn(svpos)
elseif !exists("g:netrw_quiet")
  call netrw#ErrorMsg(s:ERROR,"unable to make directory<".newdirname.">",27)
endif
" redraw!

elseif b:netrw_method == 2
" COMBAK -- future work
call netrw#ErrorMsg(s:ERROR,"making directories via ftp not currently supported",68)
elseif b:netrw_method == 3
" COMBAK -- future work
call netrw#ErrorMsg(s:ERROR,"making directories via ftp not currently supported",68)
endif

" call Dret("NetrwMakeDir")
endfun

" -----
" s:NetrwMarkFile: (invoked by mf) This function is used to both {{{2
"     mark and unmark files.  If a markfile list exists,
"     then the rename and delete functions will use it instead
"     of whatever may happen to be under the cursor at that
"     moment.  When the mouse and gui are available,
"     shift-leftmouse may also be used to mark files.
"
" Creates two lists
" s:netrwmarkfilelist  -- holds complete paths to all marked files
" s:netrwmarkfilelist_# -- holds list of marked files in current-buffer's directory (##=bufnr())
"
" Creates a marked file match string
" s:netrwmarfilemtch_# -- used with 2match to display marked files
"
" Creates a buffer version of islocal
" b:netrw_islocal
"
fun! s:NetrwMarkFile(islocal,fname)
" call Dfunc("s:NetrwMarkFile(islocal=".a:islocal." fname<".a:fname.">")")
let curbufnr= bufnr("%")
let curdir = b:netrw_curdir
if exists("s:netrwmarkfilelist_{curbufnr}")
" markfile list exists
" call Decho("starting s:netrwmarkfilelist_{curbufnr}<".string(s:netrwmarkfilelist_{curbufnr}).">")
" call Decho("starting s:netrwmarkfilemtch_{curbufnr}<".s:netrwmarkfilemtch_{curbufnr}).">")
let b:netrw_islocal= a:islocal

```

```

if index(s:netrwmarkfilelist_{curbufnr},a:fname) == -1
  " append filename to buffer's markfilelist
" call Decho("append filename<".a:fname."> to local
markfilelist_".curbufnr."<".string(s:netrwmarkfilelist_{curbufnr}).">")
  call add(s:netrwmarkfilelist_{curbufnr},a:fname)
  let s:netrwmarkfilemtch_{curbufnr}=
s:netrwmarkfilemtch_{curbufnr}.\|<'\.escape(a:fname,g:netrw_markfileesc.''''.g:netrw_markfileesc.'''').\>'

else
  " remove filename from buffer's markfilelist
" call Decho("remove filename<".a:fname."> from local
markfilelist_".curbufnr."<".string(s:netrwmarkfilelist_{curbufnr}).">")
  call filter(s:netrwmarkfilelist_{curbufnr},'v:val != a:fname')
  if s:netrwmarkfilelist_{curbufnr} == []
    " local markfilelist is empty; remove it entirely
" call Decho("markfile list now empty")
    call s:NetrwUnmarkList(curbufnr,curdir)
  else
    " rebuild match list to display markings correctly
" call Decho("rebuild s:netrwmarkfilemtch_".curbufnr)
    let s:netrwmarkfilemtch_{curbufnr}= ""
    let first = 1
    for fname in s:netrwmarkfilelist_{curbufnr}
      if first
        let s:netrwmarkfilemtch_{curbufnr}=
s:netrwmarkfilemtch_{curbufnr}.\|<'\.escape(fname,g:netrw_markfileesc.''''.g:netrw_markfileesc.'''').\>'
        else
          let s:netrwmarkfilemtch_{curbufnr}=
s:netrwmarkfilemtch_{curbufnr}.\|<'\.escape(fname,g:netrw_markfileesc.''''.g:netrw_markfileesc.'''').\>'
        endif
        let first= 0
      endif
    endfor
" call Decho("ending s:netrwmarkfilelist_".curbufnr."<".string(s:netrwmarkfilelist_{curbufnr}).">")
" call Decho("ending s:netrwmarkfilemtch_".curbufnr."<".s:netrwmarkfilemtch_{curbufnr}).">")
  endif
endif

else
  " initialize new markfilelist

" call Decho("add fname<".a:fname."> to new markfilelist_".curbufnr)
  let s:netrwmarkfilelist_{curbufnr}= []
  call add(s:netrwmarkfilelist_{curbufnr},a:fname)
" call Decho("ending s:netrwmarkfilelist_{curbufnr}<".string(s:netrwmarkfilelist_{curbufnr}).">")

  " build initial markfile matching pattern
  if a:fname =~ '/$'
    let s:netrwmarkfilemtch_{curbufnr}= \|<'\.escape(a:fname,g:netrw_markfileesc)

```

```

else
  let s:netrwmarkfilemtch_{curbufnr} = '\<'.escape(a:fname,g:netrw_markfileesc).\>'
endif
endif
" call Decho("ending s:netrwmarkfilemtch_{curbufnr}."<"s:netrwmarkfilemtch_{curbufnr}.">")
endif

" handle global markfilelist
if exists("s:netrwmarkfilelist")
  let dname = s:ComposePath(b:netrw_curdir,a:fname)
  if index(s:netrwmarkfilelist,dname) == -1
    " append new filename to global markfilelist
    call add(s:netrwmarkfilelist,s:ComposePath(b:netrw_curdir,a:fname))
  " call Decho("append filename<"a:fname."> to global markfilelist<".string(s:netrwmarkfilelist).">")
  else
    " remove new filename from global markfilelist
  " call Decho("filter(".string(s:netrwmarkfilelist).",'v:val != '.'.dname."")")
  call filter(s:netrwmarkfilelist,'v:val != ".".dname."')
  " call Decho("ending s:netrwmarkfilelist <".string(s:netrwmarkfilelist).">")
  if s:netrwmarkfilelist == []
    unlet s:netrwmarkfilelist
  endif
endif
else
  " initialize new global-directory markfilelist
  let s:netrwmarkfilelist = []
  call add(s:netrwmarkfilelist,s:ComposePath(b:netrw_curdir,a:fname))
  " call Decho("init s:netrwmarkfilelist<".string(s:netrwmarkfilelist).">")
endif

" set up 2match'ing to netrwmarkfilemtch list
if exists("s:netrwmarkfilemtch_{curbufnr}") && s:netrwmarkfilemtch_{curbufnr} != ""
  " call Decho("exe 2match netrwMarkFile /"s:netrwmarkfilemtch_{curbufnr}."/")
  exe "2match netrwMarkFile /"s:netrwmarkfilemtch_{curbufnr}."/")
else
  " call Decho("2match none")
  2match none
endif
" call Dret("s:NetrwMarkFile : netrwmarkfilelist_{curbufnr}."<".(exists("s:netrwmarkfilelist_{curbufnr}")?
string(s:netrwmarkfilelist_{curbufnr}) : " doesn't exist").">")
endfun

" -----
" s:NetrwMarkFileCompress: (invoked by mz) This function is used to {{{2
"     compress/decompress files using the programs
"     in g:netrw_compress and g:netrw_uncompress,
"     using g:netrw_compress_suffix to know which to
"     do. By default:
"     g:netrw_compress      = "gzip"

```

```

"          g:netrw_decompress   = { ".gz" : "gunzip" , ".bz2" : "bunzip2" , ".zip" : "unzip" , ".tar" : "tar -
xf" }
fun! s:NetrwMarkFileCompress(islocal)
" call Dfunc("s:NetrwMarkFileCompress(islocal=".a:islocal.")")
let svpos  = netrw#NetrwSavePosn()
let curdir = b:netrw_curdir
let curbufnr = bufnr("%")

if exists("s:netrwmarkfilelist_{curbufnr}") && exists("g:netrw_compress") && exists("g:netrw_decompress")
for fname in s:netrwmarkfilelist_{curbufnr}
" for every filename in the marked list
for sfx in sort(keys(g:netrw_decompress))
if fname =~ '\.sfx.$'
" fname has a suffix indicating that its compressed; apply associated decompression routine
let exe= s:WinPath(g:netrw_decompress[sfx])
" call Decho("fname<".fname."> is compressed so decompress with <".exe.">")
if a:islocal
if g:netrw_keepdir
let fname= shellescape(s:ComposePath(curdir,fname))
endif
else
let fname= shellescape(b:netrw_curdir.fname,1)
endif
if executable(exe)
if a:islocal
call system(exe." ".fname)
else
call s:RemoteSystem(exe." ".fname)
endif
else
call netrw#ErrorMsg(s:WARNING,"unable to apply<".exe."> to file<".fname.">",50)
endif
break
endif
endifor
if exists("exe")
unlet exe
elseif a:islocal
" fname not a compressed file, so compress it
call system(s:WinPath(g:netrw_compress)." ".shellescape(s:ComposePath(b:netrw_curdir,fname)))
else
" fname not a compressed file, so compress it
call s:RemoteSystem(s:WinPath(g:netrw_compress)." ".shellescape(fname))
endif
endifor
call s:NetrwUnmarkList(curbufnr,curdir)
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'/'))
call netrw#NetrwRestorePosn(svpos)

```

```

endif
" call Dret("s:NetrwMarkFileCompress")
endfun

" -----
" s:NetrwMarkFileCopy: (invoked by mc) copy marked files to target {{{2
"     If no marked files, then set up directory as the
"     target. Currently does not support copying entire
"     directories. Uses the local-buffer marked file list.
"     Returns 1=success (used by NetrwMarkFileMove())
"     0=failure
fun! s:NetrwMarkFileCopy(islocal)
" call Dfunc("s:NetrwMarkFileCopy(islocal=".a:islocal.") target<".(exists("s:netrwmtgt")? s:netrwmtgt : '---').">")

" sanity checks
if !exists("s:netrwmarkfilelist_{bufnr('%')}") || empty(s:netrwmarkfilelist_{bufnr('%')})
call netrw#ErrorMsg(2,"there are no marked files in this window (:help netrw-mf)",66)
" call Dret("s:NetrwMarkFileCopy 0")
return 0
endif
" call Decho("sanity chk passed: s:netrwmarkfilelist_{bufnr('%')}<".string(s:netrwmarkfilelist_{bufnr('%')})
if !exists("s:netrwmtgt")
call netrw#ErrorMsg(2,"your marked file target is empty! (:help netrw-mt)",67)
" call Dret("s:NetrwMarkFileCopy 0")
return 0
endif
" call Decho("sanity chk passed: s:netrwmtgt<".s:netrwmtgt.">")
let curdir = b:netrw_curdir
let curbufnr = bufnr("%")

if a:islocal && s:netrwmtgt_islocal
" Copy marked files, local directory to local directory
" call Decho("copy from local to local")
let args= join(map(deepcopy(s:netrwmarkfilelist_{bufnr('%')}),"shellescape(b:netrw_curdir.\\"^\".v:val)"))
" call Decho("system(\".g:netrw_localcopycmd.\" ".args.\" ".shellescape(s:netrwmtgt).")")
call system(s:WinPath(g:netrw_localcopycmd)." ".args." ".shellescape(s:netrwmtgt))

elseif a:islocal && !s:netrwmtgt_islocal
" Copy marked files, local directory to remote directory
" call Decho("copy from local to remote")
call s:NetrwUpload(s:netrwmarkfilelist_{bufnr('%')},s:netrwmtgt)

elseif !a:islocal && s:netrwmtgt_islocal
" call Decho("copy from remote to local")
call netrw#NetrwObtain(a:islocal,s:netrwmarkfilelist_{bufnr('%')},s:netrwmtgt)

elseif !a:islocal && !s:netrwmtgt_islocal
" call Decho("copy from remote to remote")

```

```

let curdir = getcwd()
let tmpdir = s:GetTempfile("")
if tmpdir !~ '/'
  let tmpdir= curdir."/".tmpdir
endif
if exists("*mkdir")
  call mkdir(tmpdir)
else
  exe "silent! !".g:netrw_local_mkdir.' '.shellescape(tmpdir,1)
endif
if isdirectory(tmpdir)
  exe "keepjumps lcd ".fnameescape(tmpdir)
  call netrw#NetrwObtain(a:islocal,s:netrwmarkfilelist_{bufnr('%')},tmpdir)
  let localfiles= map(deepcopy(s:netrwmarkfilelist_{bufnr('%')}),'substitute(v:val,"^.*\/","",""))
  call s:NetrwUpload(localfiles,s:netrwmftgt)
  if getcwd() == tmpdir
    for fname in s:netrwmarkfilelist_{bufnr('%')}
      call s:NetrwDelete(fname)
    endfor
    exe "keepjumps lcd ".fnameescape(curdir)
    exe "silent! !".g:netrw_local_rmdir." ".shellescape(tmpdir,1)
  else
    exe "keepjumps lcd ".fnameescape(curdir)
  endif
endif
endif

" -----
" cleanup
" -----
" call Decho("cleanup")

" remove markings from local buffer
call s:NetrwUnmarkList(curbufnr,curdir)

" refresh buffers
if !s:netrwmftgt_islocal
  call s:NetrwRefreshDir(s:netrwmftgt_islocal,s:netrwmftgt)
endif
if a:islocal
  call s:NetrwRefreshDir(a:islocal,b:netrw_curdir)
endif
if g:netrw_fastbrowse <= 1
  call s:LocalBrowseShellCmdRefresh()
endif

" call Dret("s:NetrwMarkFileCopy 1")
return 1

```

```

endfun

" -----
" s:NetrwMarkFileDiff: (invoked by md) This function is used to {{{2
"     invoke vim's diff mode on the marked files.
"     Either two or three files can be so handled.
"     Uses the global marked file list.
fun! s:NetrwMarkFileDiff(islocal)
" call Dfunc("s:NetrwMarkFileDiff(islocal=".a:islocal.") b:netrw_curdir<".b:netrw_curdir.">")
let curbufnr= bufnr("%")

if exists("s:netrwmarkfilelist_{curbufnr}")
let cnt = 0
let curdir = b:netrw_curdir
for fname in s:netrwmarkfilelist
let cnt= cnt + 1
if cnt == 1
" call Decho("diffthis: fname<".fname.">")
exe "e ".fnameescape(fname)
diffthis
elseif cnt == 2 || cnt == 3
vsplit
wincmd l
" call Decho("diffthis: ".fname)
exe "e ".fnameescape(fname)
diffthis
else
break
endif
endifor
call s:NetrwUnmarkList(curbufnr,curdir)
endif

" call Dret("s:NetrwMarkFileDiff")
endfun

" -----
" s:NetrwMarkFileEdit: (invoked by me) put marked files on arg list and start editing them {{{2
"     Uses global markfilelist
fun! s:NetrwMarkFileEdit(islocal)
" call Dfunc("s:NetrwMarkFileEdit(islocal=".a:islocal.")")

let curdir = b:netrw_curdir
let curbufnr = bufnr("%")
if exists("s:netrwmarkfilelist_{curbufnr}")
call s:SetRexDir(a:islocal,curdir)
let flist= join(map(deepcopy(s:netrwmarkfilelist), "fnameescape(v:val)"))
" unmark markedfile list

```

```

" call s:NetrwUnmarkList(curbufnr,curdir)
call s:NetrwUnmarkAll()
" call Decho("exe silent args ".flist)
exe "silent args ".flist
endif

" call Dret("s:NetrwMarkFileEdit")
endfun

" -----
" s:NetrwMarkFileExe: (invoked by mx) execute arbitrary command on marked files, one at a time {{{2
"     Uses the local marked-file list.
fun! s:NetrwMarkFileExe(islocal)
" call Dfunc("s:NetrwMarkFileExe(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curdir = b:netrw_curdir
let curbufnr = bufnr("%")

if exists("s:netrwmarkfilelist_{curbufnr}")
" get the command
call inputsave()
let cmd= input("Enter command: ","","file")
call inputrestore()
" call Decho("cmd<".cmd.">")

" apply command to marked files. Substitute: filename -> %
" If no %, then append a space and the filename to the command
for fname in s:netrwmarkfilelist_{curbufnr}
if a:islocal
if g:netrw_keepdir
let fname= shellescape(s:WinPath(s:ComposePath(curdir,fname)))
endif
else
let fname= shellescape(s:WinPath(b:netrw_curdir.fname))
endif
if cmd =~ '%'
let xcmd= substitute(cmd,'% ',fname,'g')
else
let xcmd= cmd.' '.fname
endif
if a:islocal
" call Decho("local: xcmd<".xcmd.">")
let ret= system(xcmd)
else
" call Decho("remote: xcmd<".xcmd.">")
let ret= s:RemoteSystem(xcmd)
endif
if v:shell_error < 0

```

```

call netrw#ErrorMsg(s:ERROR,"command<".xcmd."> failed, aborting",54)
break
else
echo ret
endif
endfor

" unmark marked file list
call s:NetrwUnmarkList(curbufnr,curdir)

" refresh the listing
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'/'))
call netrw#NetrwRestorePosn(svpos)
else
call netrw#ErrorMsg(s:ERROR,"no files marked!",59)
endif

" call Dret("s:NetrwMarkFileExe")
endfun

" -----
" s:NetrwMarkHideSfx: (invoked by mh) (un)hide files having same suffix
"      as the marked file(s) (toggles suffix presence)
"      Uses the local marked file list.
fun! s:NetrwMarkHideSfx(islocal)
" call Dfunc("s:NetrwMarkHideSfx(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curbufnr = bufnr("%")

" s:netrwmarkfilelist_{curbufnr}: the List of marked files
if exists("s:netrwmarkfilelist_{curbufnr}")

for fname in s:netrwmarkfilelist_{curbufnr}
" call Decho("s:NetrwMarkFileCopy: fname<".fname.">")
" construct suffix pattern
if fname =~ '\.'
let sfxpat= "^.*".substitute(fname,'^\.*\([\.^ ]\|+\)$','\1','')
else
let sfxpat= '^%\(\%(\.\)\|@!\.)*$'
endif
" determine if its in the hiding list or not
let inhidelist= 0
if g:netrw_list_hide != ""
let itemnum = 0
let hidelist= split(g:netrw_list_hide,',')
for hidepat in hidelist
if sfxpat == hidepat
let inhidelist= 1

```

```

        break
      endif
      let itemnum= itemnum + 1
    endfor
  endif
  " call Decho("fname<".fname."> inhidelist=".inhidelist." sfxpat<".sfxpat.">")
  if inhidelist
    " remove sfxpat from list
    call remove(hidelist,itemnum)
    let g:netrw_list_hide= join(hidelist,",")
    elseif g:netrw_list_hide != ""
      " append sfxpat to non-empty list
      let g:netrw_list_hide= g:netrw_list_hide.",".sfxpat
    else
      " set hiding list to sfxpat
      let g:netrw_list_hide= sfxpat
    endif
  endif
endfor

" refresh the listing
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'/'))
call netrw#NetrwRestorePosn(svpos)
else
  call netrw#ErrorMsg(s:ERROR,"no files marked!",59)
endif

" call Dret("s:NetrwMarkHideSfx")
endfun

" -----
" s:NetrwMarkFileGrep: (invoked by mg) This function applies vimgrep to marked files {{{2
"       Uses the global markfilelist
fun! s:NetrwMarkFileGrep(islocal)
" call Dfunc("s:NetrwMarkFileGrep(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curbufnr = bufnr("%")

if exists("s:netrwmarkfilelist")
" call Decho("s:netrwmarkfilelist".string(s:netrwmarkfilelist).">")
let netrwmarkfilelist= join(map(deepcopy(s:netrwmarkfilelist), "fnameescape(v:val)"))
call s:NetrwUnmarkAll()

" ask user for pattern
call inputsave()
let pat= input("Enter pattern: ", "")
call inputrestore()
if pat !~ '\s'
  if pat !~ '^/'

```

```

    let pat= '/.pat.'
endif
let pat= ".pat"
endif

" use vimgrep for both local and remote
" call Decho("exe vimgrep".pat." ".netrwmarkfilelist)
exe "vimgrep".pat." ".netrwmarkfilelist

2match none
call netrw#NetrwRestorePosn(svpos)
endif

" call Dret("s:NetrwMarkFileGrep")
endfun

" -----
" s:NetrwMarkFileMove: (invoked by mm) execute arbitrary command on marked files, one at a time {{{2
"     uses the global marked file list
"     s:netrwmfloc= 0: target directory is remote
"     = 1: target directory is local
fun! s:NetrwMarkFileMove(islocal)
" call Dfunc("s:NetrwMarkFileMove(islocal=".a:islocal.")")
let curdir = b:netrw_curdir
let curbufnr = bufnr("%")

" sanity check
if !exists("s:netrwmarkfilelist_{bufnr('%')}") || empty(s:netrwmarkfilelist_{bufnr('%')})
call netrw#ErrorMsg(2,"there are no marked files in this window (:help netrw-mf)",66)
" call Dret("s:NetrwMarkFileMove")
return
endif
" call Decho("sanity chk passed: s:netrwmarkfilelist_".bufnr('%')." "<" .string(s:netrwmarkfilelist_{bufnr('%')}))
if !exists("s:netrwmtgt")
call netrw#ErrorMsg(2,"your marked file target is empty! (:help netrw-mt)",67)
" call Dret("s:NetrwMarkFileCopy 0")
return 0
endif
" call Decho("sanity chk passed: s:netrwmtgt<".s:netrwmtgt.">")

if a:islocal && s:netrwmtgt_islocal
" move: local -> local
" call Decho("move from local to local")
" call Decho("(s:NetrwMarkFileMove) local to local move")
if executable(g:netrw_localmovecmd)
for fname in s:netrwmarkfilelist_{bufnr("%")}
" call Decho("system(".g:netrw_localmovecmd." ".shellescape(fname)." ".shellescape(s:netrwmtgt).")")
let ret= system(g:netrw_localmovecmd." ".shellescape(fname)." ".shellescape(s:netrwmtgt))

```

```

if v:shell_error < 0
  call netrw#ErrorMsg(s:ERROR,"command<"g:netrw_localmovecmd."> failed, aborting",54)
  break
endif
endfor
else
  call netrw#ErrorMsg(s:ERROR,"command<"g:netrw_localmovecmd."> is not executable!",57)
endif

elseif a:islocal && !s:netrwmftgt_islocal
  " move: local -> remote
  " call Decho("move from local to remote")
  " call Decho("copy")
  let mflist= s:netrwmarkfilelist_{bufnr("%")}
  call s:NetrwMarkFileCopy(a:islocal)
  " call Decho("remove")
  for fname in mflist
    let barefname = substitute(fname,'^\(.*\)\(.\{-}\)$','\2,')
    let ok = s:NetrwLocalRmFile(b:netrw_curdir,barefname,1)
  endfor
  unlet mflist

elseif !a:islocal && s:netrwmftgt_islocal
  " move: remote -> local
  " call Decho("move from remote to local")
  " call Decho("copy")
  let mflist= s:netrwmarkfilelist_{bufnr("%")}
  call s:NetrwMarkFileCopy(a:islocal)
  " call Decho("remove")
  for fname in mflist
    let barefname = substitute(fname,'^\(.*\)\(.\{-}\)$','\2,')
    let ok = s:NetrwRemoteRmFile(b:netrw_curdir,barefname,1)
  endfor
  unlet mflist

elseif !a:islocal && !s:netrwmftgt_islocal
  " move: remote -> remote
  " call Decho("move from remote to remote")
  " call Decho("copy")
  let mflist= s:netrwmarkfilelist_{bufnr("%")}
  call s:NetrwMarkFileCopy(a:islocal)
  " call Decho("remove")
  for fname in mflist
    let barefname = substitute(fname,'^\(.*\)\(.\{-}\)$','\2,')
    let ok = s:NetrwRemoteRmFile(b:netrw_curdir,barefname,1)
  endfor
  unlet mflist
endif

```

```

" -----
" cleanup
" -----
" call Decho("cleanup")

" remove markings from local buffer
call s:NetrwUnmarkList(curbufnr,curdir)          " remove markings from local buffer

" refresh buffers
if !s:netrwmftgt_islocal
  call s:NetrwRefreshDir(s:netrwmftgt_islocal,s:netrwmftgt)
endif
if a:islocal
  call s:NetrwRefreshDir(a:islocal,b:netrw_curdir)
endif
if g:netrw_fastbrowse <= 1
  call s:LocalBrowseShellCmdRefresh()
endif

" call Dret("s:NetrwMarkFileMove")
endfun

" -----
" s:NetrwMarkFilePrint: (invoked by mp) This function prints marked files {{{2
"           using the hardcopy command. Local marked-file list only.
fun! s:NetrwMarkFilePrint(islocal)
" call Dfunc("s:NetrwMarkFilePrint(islocal=".a:islocal.")")
let curbufnr= bufnr("%")
if exists("s:netrwmarkfilelist_{curbufnr}")
  let netrwmarkfilelist = s:netrwmarkfilelist_{curbufnr}
  let curdir          = b:netrw_curdir
  call s:NetrwUnmarkList(curbufnr,curdir)
  for fname in netrwmarkfilelist
    if a:islocal
      if g:netrw_keepdir
        let fname= s:ComposePath(curdir,fname)
      endif
    else
      let fname= curdir.fname
    endif
    1split
    " the autocmds will handle both local and remote files
    call Decho("exe silent e ".escape(fname,' '))
    exe "silent e ".fnameescape(fname)
    call Decho("hardcopy")
    hardcopy
  q

```

```

endfor
2match none
endif
" call Dret("s:NetrwMarkFilePrint")
endfun

" -----
" s:NetrwMarkFileRegexp: (invoked by mr) This function is used to mark {{{2
"         files when given a regexp (for which a prompt is
"         issued).
fun! s:NetrwMarkFileRegexp(islocal)
" call Dfunc("s:NetrwMarkFileRegexp(islocal=".a:islocal.")")

" get the regular expression
call inputsave()
let regexp= input("Enter regexp: ", "", "file")
call inputrestore()

if a:islocal
" get the matching list of files using local glob()
" call Decho("handle local regexp")
let dirname = escape(b:netrw_curdir,g:netrw_glob_escape)
let filelist = glob(s:ComposePath(dirname,regexp))
if filelist != ""
let filelist= filelist."\n"
endif

" mark the list of files
while filelist != ""
if filelist =~ '\n'
let filename = substitute(filelist, '\n.*$', '', 'e')
let filelist = substitute(filelist, '^.\{-}\n\(.*)$', '\1', 'e')
else
let filename = filelist
let filelist = ""
endif
" call Decho("filelist<".filelist.">")
" call Decho("filename<".filename.">")
call s:NetrwMarkFile(a:islocal,substitute(filename, '^.*$', ''))
endwhile

else
" call Decho("handle remote regexp")

" convert displayed listing into a filelist
let eikeep = &ei
let areg = @a
silent %y a

```

```

set ei=all ma
" call Decho("set ei=all ma")
lsplit
enew
silent norm! "ap
2
let bannercnt= search('^" =====','W')
exe "silent 1, ".bannercnt."d"
set bt=nofile
if g:netrw_liststyle == s:LONGLIST
  silent %s\s\{2,\}\S.*$/e
elseif g:netrw_liststyle == s:WIDELIST
  silent %s\s\{2,\}/r/ge
elseif g:netrw_liststyle == s:TREELIST
  silent %s/^\| //e
  silent! g/^\ .*$/d
endif
" convert regexp into the more usual glob-style format
let regexp= substitute(regexp, '\*', '*', 'g')
" call Decho("regexp<" .regexp.">")
exe "silent! v/" .escape(regexp, '/') ."/d"
let filelist= getline(1, line("$"))
q!
for filename in filelist
  call s:NetrwMarkFile(a:islocal, substitute(filename, '^.*/', ""))
endfor
unlet filelist
let @a = areg
let &ei = eikkeep
endif

" call Dret("s:NetrwMarkFileRegexp")
endfun

" -----
" s:NetrwMarkFileSource: (invoked by ms) This function sources marked files {{{2
"           Uses the local marked file list.
fun! s:NetrwMarkFileSource(islocal)
" call Dfunc("s:NetrwMarkFileSource(islocal=".a:islocal.")")
let curbufnr= bufnr("%")
if exists("s:netrwmarkfilelist_{curbufnr}")
  let netrwmarkfilelist = s:netrwmarkfilelist_{bufnr("%")}
  let curdir      = b:netrw_curdir
  call s:NetrwUnmarkList(curbufnr, curdir)
  for fname in netrwmarkfilelist
    if a:islocal
      if g:netrw_keepdir
        let fname= s:ComposePath(curdir, fname)

```

```

endif
else
let fname= curdir.fname
endif
" the autocmds will handle sourcing both local and remote files
" call Decho("exe so ".fnameescape(fname))
exe "so ".fnameescape(fname)
endfor
2match none
endif
" call Dret("s:NetrwMarkFileSource")
endfun

" -----
" s:NetrwMarkFileTag: (invoked by mT) This function applies g:netrw_ctags to marked files {{{2
"     Uses the global markfilelist
fun! s:NetrwMarkFileTag(islocal)
" call Dfunc("s:NetrwMarkFileTag(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curdir = b:netrw_curdir
let curbufnr = bufnr("%")

if exists("s:netrwmarkfilelist")
" call Decho("s:netrwmarkfilelist".string(s:netrwmarkfilelist).">")
let netrwmarkfilelist= join(map(deepcopy(s:netrwmarkfilelist), "shellescape(v:val, '!a:islocal.')))
call s:NetrwUnmarkAll()

if a:islocal
if executable(g:netrw_ctags)
" call Decho("call system(".g:netrw_ctags." ".netrwmarkfilelist.")")
call system(g:netrw_ctags." ".netrwmarkfilelist)
else
call netrw#ErrorMsg(s:ERROR,"g:netrw_ctags<".g:netrw_ctags."> is not executable!",51)
endif
else
let cmd = s:RemoteSystem(g:netrw_ctags." ".netrwmarkfilelist)
call netrw#NetrwObtain(a:islocal,"tags")
let curdir= b:netrw_curdir
1split
e tags
let path= substitute(curdir,'^(\.*)/[^]*$','\1/',)
" call Decho("curdir<".curdir."> path<".path.">")
exe '%s\t(\S+)\t\t'.escape(path, "\n\r").'\1\t/e'
wq!
endif
2match none
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal, './'))
call netrw#NetrwRestorePosn(svpos)

```

```

endif

" call Dret("s:NetrwMarkFileTag")
endfun

" -----
" s:NetrwMarkFileTgt: (invoked by mt) This function sets up a marked file target {{{2
" Sets up two variables,
" s:netrwmtgt : holds the target directory
" s:netrwmtgt_islocal : 0=target directory is remote
" 1=target directory is local
fun! s:NetrwMarkFileTgt(islocal)
" call Dfunc("s:NetrwMarkFileTgt(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curdir = b:netrw_curdir
let hadtgt = exists("s:netrwmtgt")
if !exists("w:netrw_bannercnt")
let w:netrw_bannercnt= b:netrw_bannercnt
endif

" set up target
if line(".") < w:netrw_bannercnt
" if cursor in banner region, use b:netrw_curdir for the target
let s:netrwmtgt= b:netrw_curdir
" call Decho("inbanner: s:netrwmtgt<".s:netrwmtgt.">")

else
" get word under cursor.
" * If directory, use it for the target.
" * If file, use b:netrw_curdir for the target
let curword= s:NetrwGetWord()
let tgtmdir = s:ComposePath(curdir,curword)
if a:islocal && isdirectory(tgtmdir)
let s:netrwmtgt = tgtmdir
" call Decho("local isdir: s:netrwmtgt<".s:netrwmtgt.">")
elseif !a:islocal && tgtmdir =~ '/'$
let s:netrwmtgt = tgtmdir
" call Decho("remote isdir: s:netrwmtgt<".s:netrwmtgt.">")
else
let s:netrwmtgt = curdir
" call Decho("isfile: s:netrwmtgt<".s:netrwmtgt.">")
endif
endif
if a:islocal
" simplify the target (eg. /abc/def/./ghi -> /abc/ghi)
let s:netrwmtgt= simplify(s:netrwmtgt)
" call Decho("simplify: s:netrwmtgt<".s:netrwmtgt.">")
endif

```

```

if g:netrw_cygwin
  let s:netrwmfgt= substitute(system("cygpath ".shellescape(s:netrwmfgt)),'\n$',"")
  let s:netrwmfgt= substitute(s:netrwmfgt,'\n$',"")
endif
let s:netrwmfgt_islocal= a:islocal

if g:netrw_fastbrowse <= 1
  call s:LocalBrowseShellCmdRefresh()
endif
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,./))
call netrw#NetrwRestorePosn(svpos)
if !hadtgt
  norm! j
endif

" call Dret("s:NetrwMarkFileTgt : netrwmfgt<".(exists("s:netrwmfgt")? s:netrwmfgt : "").">")
endfun

" -----
" s:NetrwOpenFile: query user for a filename and open it {{{2
fun! s:NetrwOpenFile(islocal)
" call Dfunc("s:NetrwOpenFile(islocal=".a:islocal.")")
call inputsave()
let fname= input("Enter filename: ")
call inputrestore()
if fname !~ '[\\]'
  if exists("b:netrw_curdir")
    if exists("g:netrw_quiet")
      let netrw_quiet_keep = g:netrw_quiet
    endif
    let g:netrw_quiet = 1
    if b:netrw_curdir =~ '/'$
      exe "e ".fnameescape(b:netrw_curdir.fname)
    else
      exe "e ".fnameescape(b:netrw_curdir."/" .fname)
    endif
    if exists("netrw_quiet_keep")
      let g:netrw_quiet= netrw_quiet_keep
    else
      unlet g:netrw_quiet
    endif
  endif
else
  exe "e ".fnameescape(fname)
endif
" call Dret("s:NetrwOpenFile")
endfun

```

```

" -----
" s:NetrwUnmarkList: delete local marked file lists and remove their contents from the global marked-file list {{{2
fun! s:NetrwUnmarkList(curbufnr,curdir)
" call Dfunc("s:NetrwUnmarkList(curbufnr=".a:curbufnr." curdir<".a:curdir.">")

" remove all files in local marked-file list from global list
if exists("s:netrwmarkfilelist_{a:curbufnr}")
for mfile in s:netrwmarkfilelist_{a:curbufnr}
let dfile = s:ComposePath(a:curdir,mfile) " prepend directory to mfile
let idx = index(s:netrwmarkfilelist,dfile) " get index in list of dfile
call remove(s:netrwmarkfilelist,idx) " remove from global list
endfor
if s:netrwmarkfilelist == []
unlet s:netrwmarkfilelist
endif

" getting rid of the local marked-file lists is easy
unlet s:netrwmarkfilelist_{a:curbufnr}
endif
if exists("s:netrwmarkfilemtch_{a:curbufnr}")
unlet s:netrwmarkfilemtch_{a:curbufnr}
endif
2match none
" call Dret("s:NetrwUnmarkList")
endfun

" -----
" s:NetrwUnmarkAll: remove the global marked file list and all local ones {{{2
fun! s:NetrwUnmarkAll()
" call Dfunc("s:NetrwUnmarkAll()")
if exists("s:netrwmarkfilelist")
unlet s:netrwmarkfilelist
endif
silent call s:NetrwUnmarkAll2()
2match none
" call Dret("s:NetrwUnmarkAll")
endfun

" -----
" s:NetrwUnmarkAll2: {{{2
fun! s:NetrwUnmarkAll2()
" call Dfunc("s:NetrwUnmarkAll2()")
redir => netrwmarkfilelist_let
let
redir END
let netrwmarkfilelist_list= split(netrwmarkfilelist_let,'\n') " convert let string into a let list
call filter(netrwmarkfilelist_list,"v:val =~ '^s:netrwmarkfilelist_'" " retain only those vars that start as
s:netrwmarkfilelist_

```

```

call map(netrwmarkfilelist_list,"substitute(v:val,\\s.*$',",")" " remove what the entries are equal to
for flist in netrwmarkfilelist_list
  let curbufnr= substitute(flist,'s:netrwmarkfilelist_',",")
  unlet s:netrwmarkfilelist_{curbufnr}
  unlet s:netrwmarkfilemtch_{curbufnr}
endfor
" call Dret("s:NetrwUnmarkAll2")
endfun

" -----
" s:NetrwUnMarkFile: {{{2
fun! s:NetrwUnMarkFile(islocal)
" call Dfunc("s:NetrwUnMarkFile(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curbufnr = bufnr("%")

" unmark marked file list (although I expect s:NetrwUpload()
" to do it, I'm just making sure)
if exists("s:netrwmarkfilelist_{bufnr('%)}")
" call Decho("unlet'ing: s:netrwmarkfile[list|mtch]_".bufnr("%"))
unlet s:netrwmarkfilelist
unlet s:netrwmarkfilelist_{curbufnr}
unlet s:netrwmarkfilemtch_{curbufnr}
2match none
endif

" call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
call netrw#NetrwRestorePosn(svpos)
" call Dret("s:NetrwUnMarkFile")
endfun

" -----
" s:NetrwMenu: generates the menu for gvim and netrw {{{2
fun! s:NetrwMenu(domenu)

if !exists("g:NetrwMenuPriority")
  let g:NetrwMenuPriority= 80
endif

if has("menu") && has("gui_running") && &go =~ 'm' && g:netrw_menu
" call Dfunc("NetrwMenu(domenu=".a:domenu.")")

if !exists("s:netrw_menu_enabled") && a:domenu
" call Decho("initialize menu")
let s:netrw_menu_enabled= 1
exe 'silent! menu '.g:NetrwMenuPriority.'.1 '.g:NetrwTopLvlMenu.'Help<tab><F1> <F1>'
exe 'silent! menu '.g:NetrwMenuPriority.'.5 '.g:NetrwTopLvlMenu.'-Sep1- :'
exe 'silent! menu '.g:NetrwMenuPriority.'.6 '.g:NetrwTopLvlMenu.'Go\ Up\ Directory<tab>- -'

```

```

exe 'silent! menu '.g:NetrwMenuPriority.'.7 '.g:NetrwTopLvlMenu.'Apply\ Special\ Viewer<tab>x x'
exe 'silent! menu '.g:NetrwMenuPriority.'.8.1 '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Bookmark\
Current\ Directory<tab>mb mb'
exe 'silent! menu '.g:NetrwMenuPriority.'.8.4 '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Goto\ Prev\ Dir\
(History)<tab>u u'
exe 'silent! menu '.g:NetrwMenuPriority.'.8.5 '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Goto\ Next\ Dir\
(History)<tab>U U'
exe 'silent! menu '.g:NetrwMenuPriority.'.8.6 '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.List<tab>qb qb'
exe 'silent! menu '.g:NetrwMenuPriority.'.9.1 '.g:NetrwTopLvlMenu.'Browsing\ Control.Edit\ File\ Hiding\
List<tab><ctrl-h>'." \<c-h>"
exe 'silent! menu '.g:NetrwMenuPriority.'.9.2 '.g:NetrwTopLvlMenu.'Browsing\ Control.Edit\ Sorting\
Sequence<tab>S S'
exe 'silent! menu '.g:NetrwMenuPriority.'.9.3 '.g:NetrwTopLvlMenu.'Browsing\ Control.Quick\ Hide/Unhide\
Dot\ Files<tab>'." gh gh"
exe 'silent! menu '.g:NetrwMenuPriority.'.9.4 '.g:NetrwTopLvlMenu.'Browsing\ Control.Refresh\
Listing<tab>'."<ctrl-l> \<c-l>"
exe 'silent! menu '.g:NetrwMenuPriority.'.9.5 '.g:NetrwTopLvlMenu.'Browsing\
Control.Settings/Options<tab>:NetrwSettings'." :NetrwSettings\<cr>"
exe 'silent! menu '.g:NetrwMenuPriority.'.10 '.g:NetrwTopLvlMenu.'Delete\ File/Directory<tab>D D'
exe 'silent! menu '.g:NetrwMenuPriority.'.11.1 '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ Current\
Window<tab><cr>'." \<cr>"
exe 'silent! menu '.g:NetrwMenuPriority.'.11.2 '.g:NetrwTopLvlMenu.'Edit\ File/Dir.Preview\
File/Directory<tab>p p'
exe 'silent! menu '.g:NetrwMenuPriority.'.11.3 '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ Previous\ Window<tab>P
P'
exe 'silent! menu '.g:NetrwMenuPriority.'.11.4 '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ New\ Window<tab>o o'
exe 'silent! menu '.g:NetrwMenuPriority.'.11.5 '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ New\ Vertical\
Window<tab>v v'
exe 'silent! menu '.g:NetrwMenuPriority.'.12.1 '.g:NetrwTopLvlMenu.'Explore.Directory\ Name :Explore '
exe 'silent! menu '.g:NetrwMenuPriority.'.12.2 '.g:NetrwTopLvlMenu.'Explore.Filenames\ Matching\ Pattern\
(curdir\ only)<tab>:Explore\ */ :Explore */'
exe 'silent! menu '.g:NetrwMenuPriority.'.12.2 '.g:NetrwTopLvlMenu.'Explore.Filenames\ Matching\ Pattern\
(+subdirs)<tab>:Explore\ **/ :Explore **/'
exe 'silent! menu '.g:NetrwMenuPriority.'.12.3 '.g:NetrwTopLvlMenu.'Explore.Files\ Containing\ Pattern\ (curdir\
only)<tab>:Explore\ *// :Explore *//'
exe 'silent! menu '.g:NetrwMenuPriority.'.12.4 '.g:NetrwTopLvlMenu.'Explore.Files\ Containing\ Pattern\
(+subdirs)<tab>:Explore\ **// :Explore **//'
exe 'silent! menu '.g:NetrwMenuPriority.'.12.4 '.g:NetrwTopLvlMenu.'Explore.Next\ Match<tab>:Nexplore
:Nexplore<cr>'
exe 'silent! menu '.g:NetrwMenuPriority.'.12.4 '.g:NetrwTopLvlMenu.'Explore.Prev\ Match<tab>:Pexplore
:Pexplore<cr>'
exe 'silent! menu '.g:NetrwMenuPriority.'.13 '.g:NetrwTopLvlMenu.'Make\ Subdirectory<tab>d d'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.1 '.g:NetrwTopLvlMenu.'Marked\ Files.Mark\ File<tab>mf mf'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.2 '.g:NetrwTopLvlMenu.'Marked\ Files.Mark\ Files\ by\
Regex<tab>mr mr'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.3 '.g:NetrwTopLvlMenu.'Marked\ Files.Hide-Show-List\
Control<tab>a a'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.4 '.g:NetrwTopLvlMenu.'Marked\ Files.Copy\ To\ Target<tab>mc

```

```

mc'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.5 '.g:NetrwTopLvlMenu.'Marked\ Files.Delete<tab>D D'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.6 '.g:NetrwTopLvlMenu.'Marked\ Files.Diff<tab>md md'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.7 '.g:NetrwTopLvlMenu.'Marked\ Files.Edit<tab>me me'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.8 '.g:NetrwTopLvlMenu.'Marked\ Files.Exe\ Cmd<tab>mx mx'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.9 '.g:NetrwTopLvlMenu.'Marked\ Files.Move\ To\ Target<tab>mm
mm'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.10 '.g:NetrwTopLvlMenu.'Marked\ Files.Obtain<tab>O O'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.11 '.g:NetrwTopLvlMenu.'Marked\ Files.Print<tab>mp mp'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.12 '.g:NetrwTopLvlMenu.'Marked\ Files.Replace<tab>R R'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.13 '.g:NetrwTopLvlMenu.'Marked\ Files.Set\ Target<tab>mt mt'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.14 '.g:NetrwTopLvlMenu.'Marked\ Files.Tag<tab>mT mT'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.15 '.g:NetrwTopLvlMenu.'Marked\
Files.Zip/Unzip/Compress/Uncompress<tab>mz mz'
exe 'silent! menu '.g:NetrwMenuPriority.'.15 '.g:NetrwTopLvlMenu.'Obtain\ File<tab>O O'
exe 'silent! menu '.g:NetrwMenuPriority.'.16.1 '.g:NetrwTopLvlMenu.'Style.Listing\ Style\ (thin-long-wide-
tree)<tab>i i'
exe 'silent! menu '.g:NetrwMenuPriority.'.16.2 '.g:NetrwTopLvlMenu.'Style.Normal-Hide-Show<tab>a a'
exe 'silent! menu '.g:NetrwMenuPriority.'.16.3 '.g:NetrwTopLvlMenu.'Style.Reverse\ Sorting\ Order<tab>.'r r'
exe 'silent! menu '.g:NetrwMenuPriority.'.16.4 '.g:NetrwTopLvlMenu.'Style.Sorting\ Method\ (name-time-
size)<tab>s s'
exe 'silent! menu '.g:NetrwMenuPriority.'.17 '.g:NetrwTopLvlMenu.'Rename\ File/Directory<tab>R R'
exe 'silent! menu '.g:NetrwMenuPriority.'.18 '.g:NetrwTopLvlMenu.'Set\ Current\ Directory<tab>c c'
call s:NetrwBookmarkMenu() " provide some history! uses priorities 2,3, reserves 4, 8.2.x
let s:netrw_menucnt= 28

elseif !a:domenu
let s:netrwcnt = 0
let curwin = winnr()
windo if getline(2) =~ "Netrw" | let s:netrwcnt= s:netrwcnt + 1 | endif
exe curwin."wincmd w"

if s:netrwcnt <= 1
" call Decho("clear menus")
exe 'silent! unmenu '.g:NetrwTopLvlMenu
" call Decho('exe silent! unmenu '.g:NetrwTopLvlMenu.*')
silent! unlet s:netrw_menu_enabled
endif
endif
" call Dret("NetrwMenu")
endif

endfun

" -----
" s:NetrwObtain: obtain file under cursor or from markfile list {{{2
" Used by the O maps (as <SID>NetrwObtain())
fun! s:NetrwObtain(islocal)

```

```

" call Dfunc("NetrwObtain(islocal=".a:islocal.")")

if exists("s:netrwmarkfilelist_{bufnr('%')}")
  let islocal= s:netrwmarkfilelist_{bufnr('%')}[1] !~ '^a\+://'
  call netrw#NetrwObtain(islocal,s:netrwmarkfilelist_{bufnr('%')})
  call s:NetrwUnmarkList(bufnr('%'),b:netrw_curdir)
else
  call netrw#NetrwObtain(a:islocal,expand("<cWORD>"))
endif

" call Dret("NetrwObtain")
endfun

" -----
" netrw#NetrwObtain: {{2
" netrw#NetrwObtain(islocal,fname[,tgtdirectory])
"   islocal=0  obtain from remote source
"     =1  obtain from local source
"   fname :   a filename or a list of filenames
"   tgtdir :  optional place where files are to go (not present, uses getcwd())
fun! netrw#NetrwObtain(islocal,fname,...)
" call Dfunc("netrw#NetrwObtain(islocal=".a:islocal." fname<" .((type(a:fname) == 1)? a:fname :
string(a:fname)).">) a:0=" .a:0)
" NetrwStatusLine support - for obtaining support

if type(a:fname) == 1
  let fnamelist= [ a:fname ]
elseif type(a:fname) == 3
  let fnamelist= a:fname
else
  call netrw#ErrorMsg(s:ERROR,"attempting to use NetrwObtain on something not a filename or a list",62)
" call Dret("netrw#NetrwObtain")
  return
endif
" call Decho("fnamelist<".string(fnamelist).">")
if a:0 > 0
  let tgtdir= a:1
else
  let tgtdir= getcwd()
endif
" call Decho("tgtdir<".tgtdir.">")

if exists("b:netrw_islocal") && b:netrw_islocal
  " obtain a file from local b:netrw_curdir to (local) tgtdir
" call Decho("obtain a file from local ".b:netrw_curdir." to ".tgtdir)
if exists("b:netrw_curdir") && getcwd() != b:netrw_curdir
  let topath= s:ComposePath(tgtdir,"")
  if (has("win32") || has("win95") || has("win64") || has("win16"))

```

```

" transfer files one at time
" call Decho("transfer files one at a time")
for fname in fnamelist
" call Decho("system(".g:netrw_localcopycmd." ".shellescape(fname)." ".shellescape(topath).)")
call system(g:netrw_localcopycmd." ".shellescape(fname)." ".shellescape(topath))
endfor
else
" transfer files with one command
" call Decho("transfer files with one command")
let filelist= join(map(deepcopy(fnamelist),"shellescape(v:val)"))
" call Decho("system(".g:netrw_localcopycmd." ".filelist." ".shellescape(topath).)")
call system(g:netrw_localcopycmd." ".filelist." ".shellescape(topath))
endif
elseif !exists("b:netrw_curdir")
call netrw#ErrorMsg(s:ERROR,"local browsing directory doesn't exist!",36)
else
call netrw#ErrorMsg(s:WARNING,"local browsing directory and current directory are identical",37)
endif

else
" obtain files from remote b:netrw_curdir to local tgtmdir
" call Decho("obtain a file from remote ".b:netrw_curdir." to ".tgtmdir)
if type(a:fname) == 1
call s:SetupNetrwStatusLine('%f %h% m%r%=%9*Obtaining '.a:fname)
endif
call s:NetrwMethod(b:netrw_curdir)

if b:netrw_method == 4
" obtain file using scp
" call Decho("obtain via scp (method#4)")
if exists("g:netrw_port") && g:netrw_port != ""
let useport= " ".g:netrw_scpport." ".g:netrw_port
else
let useport= ""
endif
if b:netrw_fname =~ '/'
let path= substitute(b:netrw_fname,'^(.*\/)\{-}$','\1,')
else
let path= ""
endif
let filelist= join(map(deepcopy(fnamelist),'shellescape(g:netrw_machine." ".path.v:val,1)'))
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_scp_cmd.shellescape(useport,1)." ".filelist."
".shellescape(tgtmdir,1))
exe s:netrw_silentxfer."!".g:netrw_scp_cmd.shellescape(useport,1)." ".filelist." ".shellescape(tgtmdir,1)

elseif b:netrw_method == 2
" obtain file using ftp + .netrc
" call Decho("obtain via ftp+.netrc (method #2)")

```

```

call s:SaveBufVars()|silent keepjumps new|call s:RestoreBufVars()
let tmpbufnr= bufnr("%")
setlocal ff=unix
if exists("g:netrw_ftpmode") && g:netrw_ftpmode != ""
  put =g:netrw_ftpmode
"   call Decho("filter input: ".getline('$'))
endif

if exists("b:netrw_fname") && b:netrw_fname != ""
  call setline(line("$")+1,'cd "'.b:netrw_fname.'"')
"   call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftpextracmd")
  put =g:netrw_ftpextracmd
"   call Decho("filter input: ".getline('$'))
endif

for fname in fnamelist
  call setline(line("$")+1,'get "'.fname.'"')
"   call Decho("filter input: ".getline('$'))
endfor

if exists("g:netrw_port") && g:netrw_port != ""
"   call Decho("executing: %!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1))
  exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1)
else
"   call Decho("executing: %!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1))
  exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)
endif

" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
  let debugkeep= &debug
  setlocal debug=msg
  call netrw#ErrorMsg(s:ERROR,getline(1),4)
  let &debug= debugkeep
endif

elseif b:netrw_method == 3
  " obtain with ftp + machine, id, passwd, and fname (ie. no .netrc)
"   call Decho("obtain via ftp+mipf (method #3)")
  call s:SaveBufVars()|silent keepjumps new|call s:RestoreBufVars()
  let tmpbufnr= bufnr("%")
  setlocal ff=unix

  if exists("g:netrw_port") && g:netrw_port != ""
    put ='open '.g:netrw_machine.' '.g:netrw_port
"   call Decho("filter input: ".getline('$'))

```

```

else
  put ='open '.g:netrw_machine
"  call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftp") && g:netrw_ftp == 1
  put =g:netrw_uid
"  call Decho("filter input: ".getline('$'))
  put =\".s:netrw_passwd.\"
"  call Decho("filter input: ".getline('$'))
else
  put ='user \".g:netrw_uid.\" \".s:netrw_passwd.\"
"  call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftpmode") && g:netrw_ftpmode != ""
  put =g:netrw_ftpmode
"  call Decho("filter input: ".getline('$'))
endif

if exists("b:netrw_fname") && b:netrw_fname != ""
  call setline(line("$")+1,'cd "'.b:netrw_fname.'"')
"  call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftpextracmd")
  put =g:netrw_ftpextracmd
"  call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftpextracmd")
  put =g:netrw_ftpextracmd
"  call Decho("filter input: ".getline('$'))
endif

for fname in fnamelist
  call setline(line("$")+1,'get "'.fname.'"')
endfor
"  call Decho("filter input: ".getline('$'))

" perform ftp:
" -i    : turns off interactive prompting from ftp
" -n unix : DON'T use <.netrc>, even though it exists
" -n win32: quit being obnoxious about password
norm! 1Gdd
"  call Decho("executing: %!" .g:netrw_ftp_cmd." -i -n")
exe s:netrw_silentxfer."%!" .g:netrw_ftp_cmd." -i -n"
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
if getline(1) !~ "^$"

```

```

" call Decho("error<".getline(1).">")
if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,getline(1),5)
endif
endif
elseif !exists("b:netrw_method") || b:netrw_method < 0
" call Dfunc("netrw#NetrwObtain : unsupported method")
return
endif

" restore status line
if type(a:fname) == 1 && exists("s:netrw_users_stl")
    call s:SetupNetrwStatusLine(s:netrw_users_stl)
endif

endif

" cleanup
if exists("tmpbufnr")
if bufnr("%") != tmpbufnr
    exe tmpbufnr."bw!"
else
    q!
endif
endif

" call Dret("netrw#NetrwObtain")
endfun

" -----
" s:NetrwPrevWinOpen: open file/directory in previous window. {{{2
" If there's only one window, then the window will first be split.
" Returns:
" choice = 0 : didn't have to choose
" choice = 1 : saved modified file in window first
" choice = 2 : didn't save modified file, opened window
" choice = 3 : cancel open
fun! s:NetrwPrevWinOpen(islocal)
" call Dfunc("NetrwPrevWinOpen(islocal=".a:islocal.")")

" grab a copy of the b:netrw_curdir to pass it along to newly split windows
let curdir = b:netrw_curdir

" get last window number and the word currently under the cursor
let lastwinnr = winnr("$")
let curword = s:NetrwGetWord()
let choice = 0
" call Decho("lastwinnr=".lastwinnr." curword<".curword.">")

```

```

let didsplit = 0
if lastwinnr == 1
  " if only one window, open a new one first
  " call Decho("only one window, so open a new one (g:netrw_alto=".g:netrw_alto.")")
  if g:netrw_preview
    " call Decho("exe ".(g:netrw_alto? "top " : "bot ")."vert ".g:netrw_winsize."wincmd s")
    exe (g:netrw_alto? "top " : "bot ")."vert ".g:netrw_winsize."wincmd s"
  else
    " call Decho("exe ".(g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s")
    exe (g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s"
  endif
let didsplit = 1

else
  call s:SaveBufVars()
  " call Decho("wincmd p")
  wincmd p
  call s:RestoreBufVars()
  " if the previous window's buffer has been changed (is modified),
  " and it doesn't appear in any other extant window, then ask the
  " user if s/he wants to abandon modifications therein.
  let bnr = winbufnr(0)
  let bnrCnt = 0
  if &mod
    " call Decho("detected: prev window's buffer has been modified: bnr=".bnr." winnr#".winnr())
    let eikp = &ei
    set ei=all
    windo if winbufnr(0) == bnr | let bnrCnt=bnrCnt+1 | endif
    exe bnr."wincmd p"
    let &ei = eikp
  " call Decho("bnr=".bnr." bnrCnt=".bnrCnt." buftype=".&bt." winnr#".winnr())
  if bnrCnt == 1
    let bufname = bufname(winbufnr(winnr()))
    let choice = confirm("Save modified file<".bufname.">?", "&Yes\n&No\n&Cancel")
    " call Decho("bufname<".bufname."> choice="."choice." winnr#".winnr())

  if choice == 1
    " Yes -- write file & then browse
    let v:errmsg = ""
    silent w
    if v:errmsg != ""
      call netrw#ErrorMsg(s:ERROR, "unable to write <".bufname.">!", 30)
    if didsplit
      q
    else
      wincmd p
    endif

```

```

"    call Dret("NetrwPrevWinOpen ".choice." : unable to write <".bufname.">")
    return choice
endif

elseif choice == 2
" No -- don't worry about changed file, just browse anyway
setlocal nomod
call netrw#ErrorMsg(s:WARNING,bufname." changes to ".bufname." abandoned",31)
wincmd p

else
" Cancel -- don't do this
if didsplit
q
else
wincmd p
endif
"    call Dret("NetrwPrevWinOpen ".choice." : cancelled")
return choice
endif
endif
endif
endif

" restore b:netrw_curdir (window split/ewnew may have lost it)
let b:netrw_curdir= curdir
if a:islocal < 2
if a:islocal
call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(a:islocal,curword))
else
call s:NetrwBrowse(a:islocal,s:NetrwBrowseChgDir(a:islocal,curword))
endif
endif
" call Dret("NetrwPrevWinOpen ".choice)
return choice
endfun

" -----
" s:NetrwUpload: load fname to tgt (used by NetrwMarkFileCopy()) {{2
"     Always assumed to be local -> remote
"     call s:NetrwUpload(filename, target)
"     call s:NetrwUpload(filename, target, fromdirectory)
fun! s:NetrwUpload(fname,tgt,...)
" call Dfunc("s:NetrwUpload(fname<".((type(a:fname) == 1)? a:fname : string(a:fname))."> tgt<".a:tgt.">
a:0=" a:0)

if a:tgt =~ '^a+://'
let tgtdir= substitute(a:tgt,'^a+://[^/]+\^(.\{-}\)$','\1,')

```

```

else
  let tgt_dir= substitute(a:tgt,^\(.*\)\/[^\]*$,\'1\',)
endif
" call Decho("tgt_dir<".tgt_dir.">")

if a:0 > 0
  let from_dir= a:1
else
  let from_dir= getcwd()
endif
" call Decho("from_dir<".from_dir.">")

if type(a:fname) == 1
  " handle uploading a single file using NetWrite
  " call Decho("handle uploading a single file via NetWrite")
  !split
  " call Decho("exe e ".fnameescape(a:fname))
  exe "e ".fnameescape(a:fname)
  " call Decho("now locally editing<".expand("%").">, has ".line("$")." lines")
  if a:tgt =~ '/'$
    let wfname= substitute(a:fname,^\.*\/,")
  " call Decho("exe w! ".fnameescape(wfname))
  exe "w! ".fnameescape(a:tgt.wfname)
  else
  " call Decho("writing local->remote: exe w ".fnameescape(a:tgt))
  exe "w ".fnameescape(a:tgt)
  " call Decho("done writing local->remote")
  endif
  q!

elseif type(a:fname) == 3
  " handle uploading a list of files via scp
  " call Decho("handle uploading a list of files via scp")
  let cur_dir= getcwd()
  if a:tgt =~ '^scp:'
    exe "keepjumps silent lcd ".fnameescape(from_dir)
    let filelist= deepcopy(s:netrwmarkfilelist_{bufnr('%)})
    let args = join(map(filelist,"shellescape(v:val, 1)")
    if exists("g:netrw_port") && g:netrw_port != ""
      let useport= " ".g:netrw_scpport." ".g:netrw_port
    else
      let useport= ""
    endif
    let machine = substitute(a:tgt,^scp://\([^\:]\+\).*$,\'1\',)
    let tgt = substitute(a:tgt,^scp://\([^\:]\+\)\(.*\)$/,\'1\',)
  " call Decho("exe ".s:netrw_silentxfer."!"g:netrw_scp_cmd.shellescape(useport,1)." ".args."
  ".shellescape(machine." ":" .tgt,1)
  exe s:netrw_silentxfer."!"g:netrw_scp_cmd.shellescape(useport,1)." ".args." ".shellescape(machine." ":" .tgt,1)

```

```

exe "keepjumps silent lcd ".fnameescape(curdir)

elseif a:tgt =~ '^ftp:'
call s:NetrwMethod(a:tgt)

if b:netrw_method == 2
" handle uploading a list of files via ftp+.netrc
let netrw_fname = b:netrw_fname
silent keepjumps new
" call Decho("filter input window#".winnr())

put =g:netrw_ftpmode
" call Decho("filter input: ".getline('$'))

if exists("g:netrw_ftpextracmd")
put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('$'))
endif

call setline(line("$")+1,'lcd "'.fromdir.'"')
" call Decho("filter input: ".getline('$'))

call setline(line("$")+1,'cd "'.tgt_dir.'"')
" call Decho("filter input: ".getline('$'))

for fname in a:fname
call setline(line("$")+1,'put "'.fname.'"')
" call Decho("filter input: ".getline('$'))
endfor

if exists("g:netrw_port") && g:netrw_port != ""
" call Decho("executing: ".s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1))
exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1)
else
" call Decho("filter input window#".winnr())
" call Decho("executing: ".s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1))
exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)
endif
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
silent g/Local directory now/d
if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
call netrw#ErrorMsg(s:ERROR,getline(1),14)
else
bw!|q
endif

```

```

elseif b:netrw_method == 3
" upload with ftp + machine, id, passwd, and fname (ie. no .netrc)
let netrw_fname= b:netrw_fname
call s:SaveBufVars()|silent keepjumps new|call s:RestoreBufVars()
let tmpbufnr= bufnr("%")
setlocal ff=unix

if exists("g:netrw_port") && g:netrw_port != ""
put =open 'g:netrw_machine.' g:netrw_port
" call Decho("filter input: ".getline('$'))
else
put =open 'g:netrw_machine
" call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftp") && g:netrw_ftp == 1
put =g:netrw_uid
" call Decho("filter input: ".getline('$'))
call setline(line("$")+1, ""s:netrw_passwd.""")
" call Decho("filter input: ".getline('$'))
else
put =user \"g:netrw_uid.\" \"s:netrw_passwd.\"
" call Decho("filter input: ".getline('$'))
endif

call setline(line("$")+1, lcd ".fromdir.")
" call Decho("filter input: ".getline('$'))

if exists("b:netrw_fname") && b:netrw_fname != ""
call setline(line("$")+1, cd "b:netrw_fname.")
" call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftpextracmd")
put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('$'))
endif

for fname in a:fname
call setline(line("$")+1, put ".fname.")
" call Decho("filter input: ".getline('$'))
endfor

" perform ftp:
" -i : turns off interactive prompting from ftp
" -n unix : DON'T use <.netrc>, even though it exists
" -n win32: quit being obnoxious about password
norm! lGdd

```

```

" call Decho("executing: ".s:netrw_silentxfer."%!"g:netrw_ftp_cmd." -i -n")
exe s:netrw_silentxfer."%!"g:netrw_ftp_cmd." -i -n"
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
silent g/Local directory now/d
if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
let debugkeep= &debug
setlocal debug=msg
call netrw#ErrorMsg(s:ERROR,getline(1),15)
let &debug = debugkeep
let mod = 1
else
bw!|q
endif
elseif !exists("b:netrw_method") || b:netrw_method < 0
" call Dfunc("netrw#NetrwUpload : unsupported method")
return
endif
else
call netrw#ErrorMsg(s:ERROR,"can't obtain files with protocol from<".a:tgt.">",63)
endif
endif

" call Dret("s:NetrwUpload")
endfun

" -----
" s:NetrwPreview: {{{2
fun! s:NetrwPreview(path) range
" call Dfunc("NetrwPreview(path<".a:path.">")")
call s:NetrwOptionSave("s:")
call s:NetrwSafeOptions()
if has("quickfix")
if !isdirectory(a:path)
exe (g:netrw_preview? "vert " : "")."pedit ".fnameescape(a:path)
elseif !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:WARNING,"sorry, cannot preview a directory such as <".a:path.">",38)
endif
elseif !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:WARNING,"sorry, to preview your vim needs the quickfix feature compiled in",39)
endif
call s:NetrwOptionRestore("s:")
" call Dret("NetrwPreview")
endfun

" -----
" s:NetrwRefresh: {{{2
fun! s:NetrwRefresh(islocal,dirname)
" call Dfunc("NetrwRefresh(islocal<".a:islocal.">,dirname="a:dirname.") hide="g:netrw_hide."

```

```

sortdir=".g:netrw_sort_direction)
" at the current time (Mar 19, 2007) all calls to NetrwRefresh() call NetrwBrowseChgDir() first.
" NetrwBrowseChgDir() may clear the display; hence a NetrwSavePosn() may not work if its placed here.
" Also, NetrwBrowseChgDir() now does a NetrwSavePosn() itself.
setlocal ma noro
" call Decho("setlocal ma noro")
" call Decho("clear buffer<".expand("%")."> with :%d")
%d
if a:islocal
  call netrw#LocalBrowseCheck(a:dirname)
else
  call s:NetrwBrowse(a:islocal,a:dirname)
endif
call netrw#NetrwRestorePosn()

" restore file marks
if exists("s:netrwmarkfilemtch_{bufnr('%')}") && s:netrwmarkfilemtch_{bufnr("%")} != ""
"  call Decho("exe 2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/")
  exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/")
else
"  call Decho("2match none")
  2match none
endif

" redraw!
" call Dret("NetrwRefresh")
endfun

" -----
" s:NetrwRefreshDir: refreshes a directory by name {{{2
"           Called by NetrwMarkFileCopy()
"           Interfaces to s:NetrwRefresh() and s:LocalBrowseShellCmdRefresh()
fun! s:NetrwRefreshDir(islocal,dirname)
"  call Dfunc("s:NetrwRefreshDir(islocal=".a:islocal." dirname<".a:dirname.">) fastbrowse=".g:netrw_fastbrowse)
if g:netrw_fastbrowse == 0
"  slowest mode (keep buffers refreshed, local or remote)
"  call Decho("slowest mode: keep buffers refreshed, local or remote")
  let tgtwin= bufwinnr(a:dirname)
"  call Decho("tgtwin= bufwinnr(".a:dirname.")=".tgtwin)

if tgtwin > 0
"  tgtwin is being displayed, so refresh it
  let curwin= winnr()
"  call Decho("refresh tgtwin#".tgtwin." (curwin#".curwin.")")
  exe tgtwin."wincmd w"
  call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'/'))
  exe curwin."wincmd w"

```

```

elseif bufnr(a:dirname) > 0
  let bn= bufnr(a:dirname)
"   call Decho("bd bufnr(".a:dirname.")=".bn)
  exe "silent bd ".bn
endif

elseif g:netrw_fastbrowse <= 1
"   call Decho("medium-speed mode: refresh local buffers only")
  call s:LocalBrowseShellCmdRefresh()
endif
"   call Dret("s:NetrwRefreshDir")
endfun

" -----
" s:NetrwSetSort: sets up the sort based on the g:netrw_sort_sequence {{{2
"   What this function does is to compute a priority for the patterns
"   in the g:netrw_sort_sequence.  It applies a substitute to any
"   "files" that satisfy each pattern, putting the priority / in
"   front.  An "*" pattern handles the default priority.
fun! s:NetrwSetSort()
"   call Dfunc("SetSort() bannercnt=".w:netrw_bannercnt)
if w:netrw_liststyle == s:LONGLIST
  let seqlist = substitute(g:netrw_sort_sequence, '\$', '\\%(t\\|\\$\\)', 'ge')
else
  let seqlist = g:netrw_sort_sequence
endif
"   sanity check -- insure that * appears somewhere
if seqlist == ""
  let seqlist= '*'
elseif seqlist !~ '*'
  let seqlist= seqlist.*'
endif
let priority = 1
while seqlist != ""
if seqlist =~ ','
  let seq  = substitute(seqlist, ',.*$', ',','e')
  let seqlist = substitute(seqlist, '^.\{-},\(.*\)$', '\1','e')
else
  let seq  = seqlist
  let seqlist = ""
endif
let sepchr= "\<Char-0xff>"
if priority < 10
  let spriority= "00".priority.sepchr
elseif priority < 100
  let spriority= "0".priority.sepchr
else
  let spriority= priority.sepchr

```

```

endif
" call Decho("priority=".priority." spriority<".spriority."> seq<".seq."> seqlist<".seqlist.">")

" sanity check
if w:netrw_bannercnt > line("$")
" apparently no files were left after a Hiding pattern was used
" call Dret("SetSort : no files left after hiding")
return
endif
if seq == '*'
let starpriority= spriority
else
exe 'silent keepjumps '.w:netrw_bannercnt.',$g/'.seq.'/s/^/'.spriority.'/'
" sometimes multiple sorting patterns will match the same file or directory.
" The following substitute is intended to remove the excess matches.
exe 'silent keepjumps '.w:netrw_bannercnt.',$g/^\d\{3}'sepchr.\d\{3}\|/s/^\d\{3}'sepchr.\(\d\{3}\|\).\@=^1/e'
endif
let priority = priority + 1
endwhile
if exists("starpriority")
exe 'silent keepjumps '.w:netrw_bannercnt.',$v/^\d\{3}'sepchr.'/s/^\d\{3}'starpriority.'/'
endif

" Following line associated with priority -- items that satisfy a priority
" pattern get prefixed by ###/ which permits easy sorting by priority.
" Sometimes files can satisfy multiple priority patterns -- only the latest
" priority pattern needs to be retained. So, at this point, these excess
" priority prefixes need to be removed, but not directories that happen to
" be just digits themselves.
exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^\(\d\{3}'sepchr.\)\|\(\d\{3}'sepchr.\)\|+ze.^1/e'

" call Dret("SetSort")
endfun

" =====
" s:NetrwSortStyle: change sorting style (name - time - size) and refresh display {{{2
fun! s:NetrwSortStyle(islocal)
" call Dfunc("s:NetrwSortStyle(islocal=".a:islocal.") netrw_sort_by<".g:netrw_sort_by.">")
call s:NetrwSaveWordPosn()
let svpos= netrw#NetrwSavePosn()

let g:netrw_sort_by= (g:netrw_sort_by =~ 'n')? 'time' : (g:netrw_sort_by =~ 't')? 'size' : 'name'
norm! 0
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'/'))
call netrw#NetrwRestorePosn(svpos)

" call Dret("s:NetrwSortStyle : netrw_sort_by<".g:netrw_sort_by.">")
endfun

```

```

" -----
" s:NetrwSplit: mode {{{2
"   =0 : net  and o
"   =1 : net  and t
"   =2 : net  and v
"   =3 : local and o
"   =4 : local and t
"   =5 : local and v
fun! s:NetrwSplit(mode)
" call Dfunc("s:NetrwSplit(mode=".a:mode.") alto=".g:netrw_alto." altv=".g:netrw_altv)

call s:SaveWinVars()

if a:mode == 0
" remote and o
" call Decho("exe ".(g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s")
exe (g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s"
let s:didsplit= 1
call s:RestoreWinVars()
call s:NetrwBrowse(0,s:NetrwBrowseChgDir(0,s:NetrwGetWord()))
unlet s:didsplit

elseif a:mode == 1
" remote and t
let newdir = s:NetrwBrowseChgDir(0,s:NetrwGetWord())
" call Decho("tabnew")
tabnew
let s:didsplit= 1
call s:RestoreWinVars()
call s:NetrwBrowse(0,newdir)
unlet s:didsplit

elseif a:mode == 2
" remote and v
" call Decho("exe ".(g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v")
exe (g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v"
let s:didsplit= 1
call s:RestoreWinVars()
call s:NetrwBrowse(0,s:NetrwBrowseChgDir(0,s:NetrwGetWord()))
unlet s:didsplit

elseif a:mode == 3
" local and o
" call Decho("exe ".(g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s")
exe (g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s"
let s:didsplit= 1
call s:RestoreWinVars()

```

```

call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,s:NetrwGetWord()))
unlet s:didsplit

elseif a:mode == 4
" local and t
let netrw_curdir= b:netrw_curdir
let cursorword = s:NetrwGetWord()
" call Decho("tabnew")
tabnew
let b:netrw_curdir= netrw_curdir
let s:didsplit= 1
call s:RestoreWinVars()
call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,cursorword))
unlet s:didsplit

elseif a:mode == 5
" local and v
" call Decho("exe ".(g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v")
exe (g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v"
let s:didsplit= 1
call s:RestoreWinVars()
call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,s:NetrwGetWord()))
unlet s:didsplit

else
call netrw#ErrorMsg(s:ERROR, "(NetrwSplit) unsupported mode=" .a:mode,45)
endif

" call Dret("s:NetrwSplit")
endfun

" -----
" NetrwStatusLine: {{{2
fun! NetrwStatusLine()

" vvv NetrwStatusLine() debugging vvv
" let g:stlmsg=""
" if !exists("w:netrw_explore_bufnr")
" let g:stlmsg="!X<explore_bufnr>"
" elseif w:netrw_explore_bufnr != bufnr("%")
" let g:stlmsg="explore_bufnr!=.bufnr("%")
" endif
" if !exists("w:netrw_explore_line")
" let g:stlmsg=" !X<explore_line>"
" elseif w:netrw_explore_line != line(".")
" let g:stlmsg=" explore_line!={line(.)<.line(".).">"
" endif
" if !exists("w:netrw_explore_list")

```

```

" let g:stlmsg=" !X<explore_list>"
" endif
" ^^^ NetrwStatusLine() debugging ^^^

if !exists("w:netrw_explore_bufnr") || w:netrw_explore_bufnr != bufnr("%") || !exists("w:netrw_explore_line") ||
w:netrw_explore_line != line(".") || !exists("w:netrw_explore_list")
" restore user's status line
let &stl      = s:netrw_users_stl
let &laststatus = s:netrw_users_ls
if exists("w:netrw_explore_bufnr")|unlet w:netrw_explore_bufnr|endif
if exists("w:netrw_explore_line") |unlet w:netrw_explore_line |endif
return ""
else
return "Match ".w:netrw_explore_mtchcnt." of ".w:netrw_explore_listlen
endif
endfun

" -----
" s:NetrwTreeDir: determine tree directory given current cursor position {{{2
" (full path directory with trailing slash returned)
fun! s:NetrwTreeDir()
" call Dfunc("NetrwTreeDir() curline#.line(".")."<.getline('.')"> b:netrw_curdir<.b:netrw_curdir.">
tab#".tabpagenr()." win#".winnr()." buf#".bufnr("%")."<.bufname("%").">")

let treedir= b:netrw_curdir
" call Decho("set initial treedir<.treedir.">")
let s:treecurpos= netrw#NetrwSavePosn()

if w:netrw_liststyle == s:TREELIST
" call Decho("w:netrw_liststyle is TREELIST:")
" call Decho("line#.line(".").> getline(.)<.getline('.')"> treecurpos<.string(s:treecurpos).">")
if getline('.') =~ '/'$
let treedir= substitute(getline('.'),'^%(\ | \)*\([^\].\{-}\)$',\1,'e')
else
let treedir= ""
endif

" call Decho("treedir<.treedir.">")

" detect user attempting to close treeroot
if getline('.') !~ '|' && getline('.') != '..'
" call Decho("user attempted to close treeroot")
" now force a refresh
" call Decho("clear buffer<.expand("%")."> with :%d")
keepjumps %d
" call Dret("NetrwTreeDir <.treedir."> : (side effect) s:treecurpos<.string(s:treecurpos).">")
return b:netrw_curdir
endif

```

```

" elide all non-depth information
let depth = substitute(getline('.'),'\(\%(\ | \)*\)[^\].\{-}\$',\1','e')
" call Decho("depth<".depth."> 1st subst")

" elide first depth
let depth = substitute(depth,'^| ','")
" call Decho("depth<".depth."> 2nd subst")

" construct treedir by searching backwards at correct depth
" call Decho("constructing treedir<".treedir."> depth<".depth.">")
while depth != "" && search('^'.depth.'[^\].\{-}/$','bW')
let dirname= substitute(getline('.'),'\(\ | \)*','e')
let treedir= dirname.treedir
let depth = substitute(depth,'^| ','")
" call Decho("constructing treedir<".treedir.">: dirname<".dirname."> while depth<".depth.">")
endwhile
if w:netrw_treetop =~ '/'$'
let treedir= w:netrw_treetop.treedir
else
let treedir= w:netrw_treetop.'/'.treedir
endif
" call Decho("bufnr(.)=".bufnr("%")." line($)="line("$")." line(.)="line(".)")
endif
let treedir= substitute(treedir,'/$','/',")

" " now force a refresh
"" call DECHO("clear buffer<".expand("%")."> with :%d")
" setlocal ma noro
" keepjumps %d

" call Dret("NetrwTreeDir <".treedir."> : (side effect) s:treecurpos<".string(s:treecurpos).">")
return treedir
endfun

" -----
" s:NetrwTreeDisplay: recursive tree display {{ {2
fun! s:NetrwTreeDisplay(dir,depth)
" call Dfunc("NetrwTreeDisplay(dir<".a:dir."> depth<".a:depth.">)")

" insure that there are no folds
setlocal nofen

" install ../ and shortdir
if a:depth == ""
call setline(line("$")+1,'../')
" call Decho("setline#"line("$")." ../ (depth is zero)")
endif

```

```

if a:dir =~ '^a\+://'
if a:dir == w:netrw_treetop
let shortdir= a:dir
else
let shortdir= substitute(a:dir, '^.*\([^\|]+\)/$', '\1/', 'e')
endif
call setline(line("$")+1, a:depth.shortdir)
else
let shortdir= substitute(a:dir, '^.*/', '', 'e')
call setline(line("$")+1, a:depth.shortdir.'/')
endif
" call Decho("setline#.line("$")." shortdir<" a:depth.shortdir.">")

" append a / to dir if its missing one
let dir= a:dir
if dir !~ '/'$
let dir= dir.'/'
endif

" display subtrees (if any)
let depth= "| " a:depth

" call Decho("display subtrees with depth<" .depth."> and current leaves")
for entry in w:netrw_treedict[a:dir]
let direntry= substitute(dir.entry, '/'$, "", 'e')
" call Decho("dir<" .dir."> entry<" .entry."> direntry<" .direntry.">")
if entry =~ '/'$ && has_key(w:netrw_treedict, direntry)
" call Decho("<" .direntry."> is a key in treedict - display subtree for it")
call s:NetrwTreeDisplay(direntry, depth)
elseif entry =~ '/'$ && has_key(w:netrw_treedict, direntry.'/')
" call Decho("<" .direntry."> is a key in treedict - display subtree for it")
call s:NetrwTreeDisplay(direntry.'/', depth)
else
" call Decho("<" .entry."> is not a key in treedict (no subtree)")
call setline(line("$")+1, depth.entry)
endif
endfor
" call Dret("NetrwTreeDisplay")
endfun

" -----
" s:NetrwTreeListing: displays tree listing from treetop on down, using NetrwTreeDisplay() {{{2
fun! s:NetrwTreeListing(dirname)
if w:netrw_liststyle == s:TREELIST
" call Dfunc("NetrwTreeListing() bufname<" .expand("%").">")
" call Decho("curdir<" .a:dirname.">")
" call Decho("win#".winnr().": w:netrw_treetop ".(exists("w:netrw_treetop")? "exists" : "doesn't exit")."
w:netrw_treedict ".(exists("w:netrw_treedict")? "exists" : "doesn't exit"))

```

```

" update the treetop
" call Decho("update the treetop")
if !exists("w:netrw_treetop")
  let w:netrw_treetop= a:dirname
" call Decho("w:netrw_treetop<".w:netrw_treetop."> (reusing)")
elseif (w:netrw_treetop =~ ('^'.a:dirname) && s:Strlen(a:dirname) < s:Strlen(w:netrw_treetop)) || a:dirname !~
('^'.w:netrw_treetop)
  let w:netrw_treetop= a:dirname
" call Decho("w:netrw_treetop<".w:netrw_treetop."> (went up)")
endif

" insure that we have at least an empty treedict
if !exists("w:netrw_treedict")
  let w:netrw_treedict= {}
endif

" update the directory listing for the current directory
" call Decho("updating dictionary with ".a:dirname.":[.directory listing..]")
" call Decho("bannercnt=".w:netrw_bannercnt." line($)=.line("$)")
exe "silent! keepjumps ".w:netrw_bannercnt.',$g@^\.\.|=/$@d'
let w:netrw_treedict[a:dirname]= getline(w:netrw_bannercnt,line("$"))
" call Decho("w:treedict[".a:dirname."]= ".w:netrw_treedict[a:dirname])
exe "silent! keepjumps ".w:netrw_bannercnt.",$d"

" if past banner, record word
if exists("w:netrw_bannercnt") && line(".") > w:netrw_bannercnt
  let fname= expand("<cword>")
else
  let fname= ""
endif
" call Decho("fname<".fname.">")

" display from treetop on down
call s:NetrwTreeDisplay(w:netrw_treetop,"")

" call Dret("NetrwTreeListing : bufname<".expand("%").">")
endif
endfun

" -----
" s:NetrwWideListing: {{{2
fun! s:NetrwWideListing()

if w:netrw_liststyle == s:WIDELIST
" call Dfunc("NetrwWideListing() w:netrw_liststyle=".w:netrw_liststyle.' fo='.&fo.' l:fo='.&l:fo)
" look for longest filename (cpf=characters per filename)
" cpf: characters per file

```

```

" fpl: files per line
" fpc: files per column
setlocal ma noro
" call Decho("setlocal ma noro")
let b:netrw_cpf= 0
if line("$") >= w:netrw_bannercnt
  exe 'silent keepjumps '.w:netrw_bannercnt.',$g/^./if virtcol("$") > b:netrw_cpf|let b:netrw_cpf= virtcol("$)|endif'
else
" call Dret("NetrwWideListing")
  return
endif
" call Decho("max file strlen+1="b:netrw_cpf)
let b:netrw_cpf= b:netrw_cpf + 1

" determine qty files per line (fpl)
let w:netrw_fpl= winwidth(0)/b:netrw_cpf
if w:netrw_fpl <= 0
  let w:netrw_fpl= 1
endif
" call Decho("fpl= ".winwidth(0)."/[b:netrw_cpf="b:netrw_cpf.']=w:netrw_fpl)

" make wide display
exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^.*$/^=escape(sprintf("%-'.b:netrw_cpf.'s",submatch(0)),"\\")/'
let fpc      = (line("$") - w:netrw_bannercnt + w:netrw_fpl)/w:netrw_fpl
let newcolstart = w:netrw_bannercnt + fpc
let newcolend   = newcolstart + fpc - 1
" call Decho("bannercnt=".w:netrw_bannercnt." fpl="w:netrw_fpl." fpc="fpc."
newcol["newcolstart.",".newcolend."])
silent! let keepregstar = @*
while line("$") >= newcolstart
  if newcolend > line("$") | let newcolend= line("$") | endif
  let newcolqty= newcolend - newcolstart
  exe newcolstart
  if newcolqty == 0
    exe "silent keepjumps norm! 0<c-v>$hx".w:netrw_bannercnt."G$p"
  else
    exe "silent keepjumps norm! 0<c-v>".newcolqty.'j$hx'.w:netrw_bannercnt.'G$p'
  endif
  exe "silent keepjumps ".newcolstart.'.'.newcolend.'d'
  exe 'silent keepjumps '.w:netrw_bannercnt
endwhile
silent! let @*= keepregstar
exe "silent keepjumps ".w:netrw_bannercnt.',$s/s\+$//e'
setlocal noma nomod ro
" call Dret("NetrwWideListing")
endif

endfun

```

```

" -----
" s:PerformListing: {{{2
fun! s:PerformListing(islocal)
" call Dfunc("s:PerformListing(islocal=".a:islocal.") buf(%)=".bufnr("%")."<".bufname("%").">")

call s:NetrwSafeOptions()
setlocal noro ma
" call Decho("setlocal noro ma")

" if exists("g:netrw_silent") && g:netrw_silent == 0 && &ch >= 1 " Decho
" call Decho("(netrw) Processing your browsing request...")
" endif      " Decho

" call Decho('w:netrw_liststyle=!(exists("w:netrw_liststyle")? w:netrw_liststyle : 'n/a')')
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict")
" force a refresh for tree listings
" call Decho("force refresh for treelisting: clear buffer<".expand("%")."> with :%d")
keepjumps %d
endif

" save current directory on directory history list
call s:NetrwBookHistHandler(3,b:netrw_curdir)

" Set up the banner {{{3
" call Decho("set up banner")
keepjumps put =\
=====
keepjumps put =\ Netrw Directory Listing (netrw 'g:loaded_netrw.')'
keepjumps put =\ 'b:netrw_curdir
keepjumps 1d
let w:netrw_bannercnt= 3
exe "keepjumps ".w:netrw_bannercnt

let sortby= g:netrw_sort_by
if g:netrw_sort_direction =~ "^r"
let sortby= sortby." reversed"
endif

" Sorted by... {{{3
" call Decho("handle specified sorting: g:netrw_sort_by<".g:netrw_sort_by.">")
if g:netrw_sort_by =~ "^n"
" call Decho("directories will be sorted by name")
" sorted by name
keepjumps put =\ Sorted by '.sortby
keepjumps put =\ Sort sequence: 'g:netrw_sort_sequence
let w:netrw_bannercnt= w:netrw_bannercnt + 2
else

```

```

" call Decho("directories will be sorted by size or time")
" sorted by size or date
keepjumps put =\" Sorted by '.sortby
let w:netrw_bannercnt= w:netrw_bannercnt + 1
endif
exe "keepjumps ".w:netrw_bannercnt

" show copy/move target, if any
if exists("s:netrw_mftgt") && exists("s:netrw_mftgt_islocal")
" call Decho("show copy/move target<".s:netrw_mftgt.">")
keepjumps put ="
if s:netrw_mftgt_islocal
call setline(line(".")," Copy/Move Tgt: '.s:netrw_mftgt.' (local)')
else
call setline(line(".")," Copy/Move Tgt: '.s:netrw_mftgt.' (remote)')
endif
let w:netrw_bannercnt= w:netrw_bannercnt + 1
else
" call Decho("s:netrw_mftgt does not exist, don't make Copy/Move Tgt")
endif
exe "keepjumps ".w:netrw_bannercnt

" Hiding... -or- Showing... {{{3
" call Decho("handle hiding/showing (g:netrw_hide=".g:netrw_list_hide."
g:netrw_list_hide<".g:netrw_list_hide.">")")
if g:netrw_list_hide != "" && g:netrw_hide
if g:netrw_hide == 1
keepjumps put =\" Hiding:    '.g:netrw_list_hide
else
keepjumps put =\" Showing:   '.g:netrw_list_hide
endif
let w:netrw_bannercnt= w:netrw_bannercnt + 1
endif
exe "keepjumps ".w:netrw_bannercnt
keepjumps put =\" Quick Help: <F1>:help -:go up dir D:delete R:rename s:sort-by x:exec'
keepjumps put =\"
=====
let w:netrw_bannercnt= w:netrw_bannercnt + 2

" bannercnt should index the line just after the banner
let w:netrw_bannercnt= w:netrw_bannercnt + 1
exe "keepjumps ".w:netrw_bannercnt
" call Decho("bannercnt=".w:netrw_bannercnt." (should index line just after banner) line($)=.line("$)")

" set up syntax highlighting {{{3
" call Decho("set up syntax highlighting")
if has("syntax")
setlocal ft=netrw

```

```

if !exists("g:syntax_on") || !g:syntax_on
  setlocal ft=
endif
endif

" get list of files
" call Decho("Get list of files - islocal=".a:islocal)
if a:islocal
  call s:LocalListing()
else " remote
  call s:NetrwRemoteListing()
endif
" call Decho("w:netrw_bannercnt=".w:netrw_bannercnt." (banner complete)")

" manipulate the directory listing (hide, sort) {{{3
if line("$") >= w:netrw_bannercnt
" call Decho("manipulate directory listing (hide)")
" call Decho("g:netrw_hide=".g:netrw_hide." g:netrw_list_hide<".g:netrw_list_hide.">")
if g:netrw_hide && g:netrw_list_hide != ""
  call s:NetrwListHide()
endif
if line("$") >= w:netrw_bannercnt
" call Decho("manipulate directory listing (sort) : g:netrw_sort_by<".g:netrw_sort_by.">")

if g:netrw_sort_by =~ "^n"
  " sort by name
  call s:NetrwSetSort()

if w:netrw_bannercnt < line("$")
" call Decho("g:netrw_sort_direction=".g:netrw_sort_direction." (bannercnt=".w:netrw_bannercnt."))
if g:netrw_sort_direction =~ 'n'
  " normal direction sorting
  exe 'silent keepjumps '.w:netrw_bannercnt.',$sort!''.g:netrw_sort_options
else
  " reverse direction sorting
  exe 'silent keepjumps '.w:netrw_bannercnt.',$sort!''.g:netrw_sort_options
endif
endif
" remove priority pattern prefix
" call Decho("remove priority pattern prefix")
let sepchr= "\<Char-0xff>"
exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^\d\{3}''.sepchr.//''

elseif a:islocal
if w:netrw_bannercnt < line("$")
" call Decho("g:netrw_sort_direction=".g:netrw_sort_direction)
if g:netrw_sort_direction =~ 'n'
" call Decho('exe silent keepjumps '.w:netrw_bannercnt.',$sort')

```

```

exe 'silent keepjumps '.w:netrw_bannercnt.',$sort!''.g:netrw_sort_options
else
" call Decho('exe silent keepjumps '.w:netrw_bannercnt.',$sort!')
exe 'silent keepjumps '.w:netrw_bannercnt.',$sort!''.g:netrw_sort_options
endif
endif
exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^\d\{-}\|\\e'
endif

elseif g:netrw_sort_direction =~ 'r'
" call Decho('reverse the sorted listing')
exe 'silent keepjumps '.w:netrw_bannercnt.'g/^/m '.w:netrw_bannercnt
endif
endif

" convert to wide/tree listing {{{3
" call Decho("modify display if wide/tree listing style")
call s:NetrwWideListing()
call s:NetrwTreeListing(b:netrw_curdir)

if exists("w:netrw_bannercnt") && line("$") > w:netrw_bannercnt
" place cursor on the top-left corner of the file listing
" call Decho("place cursor on top-left corner of file listing")
exe 'silent keepjumps '.w:netrw_bannercnt
norm! 0
endif

" record previous current directory
let w:netrw_prvdir= b:netrw_curdir
" call Decho("record netrw_prvdir<".w:netrw_prvdir.">")

" save certain window-oriented variables into buffer-oriented variables {{{3
call s:SetBufWinVars()
call s:NetrwOptionRestore("w:")

" set display to netrw display settings
" call Decho("set display to netrw display settings (noma nomod etc)")
setlocal noma nomod nonu nobl nowrap ro
if exists("s:treecurpos")

call netrw#NetrwRestorePosn(s:treecurpos)
unlet s:treecurpos
endif

" call Dret("s:PerformListing : curpos<".string(getpos(".")).">")
endfun

" -----

```

```

" s:SetupNetrwStatusLine: {{{2
fun! s:SetupNetrwStatusLine(statline)
" call Dfunc("SetupNetrwStatusLine(statline<".a:statline.">")

if !exists("s:netrw_setup_statline")
let s:netrw_setup_statline= 1
" call Decho("do first-time status line setup")

if !exists("s:netrw_users_stl")
let s:netrw_users_stl= &stl
endif
if !exists("s:netrw_users_ls")
let s:netrw_users_ls= &laststatus
endif

" set up User9 highlighting as needed
let keepa= @a
redir @a
try
hi User9
catch /^Vim\%((\a+)\)\=:E411/
if &bg == "dark"
hi User9 ctermfg=yellow ctermbg=blue guifg=yellow guibg=blue
else
hi User9 ctermbg=yellow ctermfg=blue guifg=yellow guibg=blue
endif
endtry
redir END
let @a= keepa
endif

" set up status line (may use User9 highlighting)
" insure that windows have a statusline
" make sure statusline is displayed
let &stl=a:statline
setlocal laststatus=2
" call Decho("stl=".&stl)
redraw

" call Dret("SetupNetrwStatusLine : stl=".&stl)
endfun

" -----
" Remote Directory Browsing Support: {{{1
" =====

" -----
" s:NetrwRemoteListing: {{{2

```

```

fun! s:NetrwRemoteListing()
" call Dfunc("s:NetrwRemoteListing() b:netrw_curdir<".b:netrw_curdir.">")

call s:RemotePathAnalysis(b:netrw_curdir)

" sanity check:
if exists("b:netrw_method") && b:netrw_method =~ '[235]'
" call Decho("b:netrw_method=".b:netrw_method)
if !executable("ftp")
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"this system doesn't support remote directory listing via ftp",18)
endif
call s:NetrwOptionRestore("w:")
" call Dret("s:NetrwRemoteListing")
return
endif

elseif !exists("g:netrw_list_cmd") || g:netrw_list_cmd == "
if !exists("g:netrw_quiet")
if g:netrw_list_cmd == ""
call netrw#ErrorMsg(s:ERROR,g:netrw_ssh_cmd." is not executable on your system",47)
else
call netrw#ErrorMsg(s:ERROR,"this system doesn't support remote directory listing via ".g:netrw_list_cmd,19)
endif
endif

call s:NetrwOptionRestore("w:")
" call Dret("s:NetrwRemoteListing")
return
endif " (remote handling sanity check)

if exists("b:netrw_method")
" call Decho("setting w:netrw_method<".b:netrw_method.">")
let w:netrw_method= b:netrw_method
endif

if s:method == "ftp"
" use ftp to get remote file listing
" call Decho("use ftp to get remote file listing")
let s:method = "ftp"
let listcmd = g:netrw_ftp_list_cmd
if g:netrw_sort_by =~ '^t'
let listcmd= g:netrw_ftp_timelist_cmd
elseif g:netrw_sort_by =~ '^s'
let listcmd= g:netrw_ftp_sizelist_cmd
endif
" call Decho("listcmd<".listcmd."> (using g:netrw_ftp_list_cmd)")
call s:NetrwRemoteFtpCmd(s:path,listcmd)

```

```

" exe "keepjumps ".w:netrw_bannercnt.',$g/^./call Decho("raw listing: ".getline("."))'

if w:netrw_liststyle == s:THINLIST || w:netrw_liststyle == s:WIDELIST || w:netrw_liststyle == s:TREELIST
" shorten the listing
" call Decho("generate short listing")
exe "keepjumps ".w:netrw_bannercnt

" cleanup
if g:netrw_ftp_browse_reject != ""
exe "silent! g".g:netrw_ftp_browse_reject."/keepjumps d"
endif
silent! keepjumps %s/\r$/e

" if there's no ../ listed, then put ../ and ../ in
let line1= line(".")
exe "keepjumps ".w:netrw_bannercnt
let line2= search('^\.\.\\|%\(\s|\$)','cnW')
if line2 == 0
" call Decho("netrw is putting ../ and ../ into listing")
keepjumps put='../'
keepjumps put='../'
endif
exe "keepjumps ".line1
keepjumps norm! 0

" call Decho("line1=".line1." line2=".line2." line(.)=".line(".")")
if search('^d\{2}-d\{2}-d\{2}\s',n) " M$ ftp site cleanup
" call Decho("M$ ftp cleanup")
exe 'silent! keepjumps '.w:netrw_bannercnt.',$s/^d\{2}-d\{2}-
\d\{2}\s\+d\+:\d\+[AaPp][Mm]\s\+\%(<DIR>|\d\+)\s\+/'
else " normal ftp cleanup
" call Decho("normal ftp cleanup")
exe 'silent! keepjumps '.w:netrw_bannercnt.',$s/^\(\%(\S\+|\s\+)\{7}\S\+)\s\+(\(\S.*\))$/\2/e'
exe "silent! keepjumps ".w:netrw_bannercnt.',$g/ -> /s# -> .*/$#/#e'
exe "silent! keepjumps ".w:netrw_bannercnt.',$g/ -> /s# -> .*/$#/#e'
endif
endif

else
" use ssh to get remote file listing {{{3
" call Decho("use ssh to get remote file listing: s:path<".s:path.">")
let listcmd= s:MakeSshCmd(g:netrw_list_cmd)
" call Decho("listcmd<".listcmd."> (using g:netrw_list_cmd)")
if g:netrw_scp_cmd =~ '^pscp'
" call Decho("1: exe silent r! ".shellescape(listcmd.s:path, 1))
exe "silent r! ".listcmd.shellescape(s:path, 1)
" remove rubbish and adjust listing format of 'pscp' to 'ssh ls -FLa' like
g/^Listing directory/d

```

```

g/^d[-rwx][-rwx][-rwx]/s+$/+e
silent g/^l[-rwx][-rwx][-rwx]/s+$/+@+e
if g:netrw_liststyle != s:LONGLIST
  g/^[dlsp-][-rwx][-rwx][-rwx]/s/^\.*\s\(\S\+\)$\1/e
endif
else
if s:path == ""
"  call Decho("2: exe silent r! ".listcmd)
  exe "silent r! ".listcmd
else
"  call Decho("3: exe silent r! ".listcmd.' '.shellescape(s:path,1))
  exe "silent r! ".listcmd.' '.shellescape(s:path,1)
"  call Decho("listcmd<".listcmd."> path<".s:path.">")
  endif
endif

" cleanup
if g:netrw_ftpbrowse_reject != ""
"  call Decho("(cleanup) exe silent! g/".g:netrw_ssh_browse_reject."/keepjumps d")
  exe "silent! g/".g:netrw_ssh_browse_reject."/keepjumps d"
endif
endif

if w:netrw_liststyle == s:LONGLIST
" do a long listing; these substitutions need to be done prior to sorting {{{3
"  call Decho("fix long listing:")

if s:method == "ftp"
" cleanup
exe "keepjumps ".w:netrw_bannercnt
while getline('.') =~ g:netrw_ftpbrowse_reject
  keepjumps d
endwhile
" if there's no ./ listed, then put ./ and ./ in
let line1= line(".")
keepjumps 1
silent keepjumps call search('^\.\\.\|%\(\s\|$\)', 'W')
let line2= line(".")
if line2 == 0
  exe 'keepjumps '.w:netrw_bannercnt.'"put=!./'"
  if b:netrw_curdir != '/'
    exe 'keepjumps '.w:netrw_bannercnt.'"put=!./'"
  endif
endif
exe "keepjumps ".line1
keepjumps norm! 0
endif

```

```

if search('^\\d{2}-\\d{2}-\\d{2}\\s','n') " M$ ftp site cleanup
" call Decho("M$ ftp site listing cleanup")
  exe 'silent! keepjumps '.w:netrw_bannercnt.', $s/^(\\d{2}-\\d{2}-
\\d{2}\\s+\\d+:\\d+[AaPp][Mm]\\s+\\%(<DIR>|\\d+|\\s+|\\)(\\w.*)$^2\\t1/'
elseif exists("w:netrw_bannercnt") && w:netrw_bannercnt <= line("$")
" call Decho("normal ftp site listing cleanup: bannercnt=".w:netrw_bannercnt." line($)=.line("$"))
  exe 'silent keepjumps '.w:netrw_bannercnt.', $s/ -> .*$/e'
  exe 'silent keepjumps '.w:netrw_bannercnt.', $s/^(\\%(\\S|\\s+|\\){7}\\S+|\\s+|\\(\\S.*)$^2\\t1/e'
  exe 'silent keepjumps '.w:netrw_bannercnt
endif
endif

" if exists("w:netrw_bannercnt") && w:netrw_bannercnt <= line("$") " Decho
" exe "keepjumps ".w:netrw_bannercnt.', $g/^./call Decho("listing: ".getline("."))'
" endif " Decho
" call Dret("s:NetrwRemoteListing")
endfun

" -----
" s:NetrwRemoteRm: remove/delete a remote file or directory {{{2
fun! s:NetrwRemoteRm(usrhost,path) range
" call Dfunc("s:NetrwRemoteRm(usrhost<".a:usrhost."> path<".a:path.">) virtcol=".virtcol("."))
" call Decho("firstline=".a:firstline." lastline=".a:lastline)
let svpos= netrw#NetrwSavePosn()

let all= 0
if exists("s:netrwmarkfilelist_{bufnr('%')}")
" remove all marked files
" call Decho("remove all marked files with bufnr#" .bufnr("%")
for fname in s:netrwmarkfilelist_{bufnr("%")}
let ok= s:NetrwRemoteRmFile(a:path,fname,all)
if ok =~ 'q\\%[uit]'
break
elseif ok =~ 'a\\%[ll]'
let all= 1
endif
endfor
call s:NetrwUnmarkList(bufnr("%"),b:netrw_curdir)

else
" remove files specified by range
" call Decho("remove files specified by range")

" preparation for removing multiple files/directories
let ctr= a:firstline

" remove multiple files and directories
while ctr <= a:lastline

```

```

exe ctr
let ok= s:NetrwRemoteRmFile(a:path,s:NetrwGetWord(),all)
if ok =~ 'q\%[uit]'
break
elseif ok =~ 'a\%[ll]'
let all= 1
endif
let ctr= ctr + 1
endwhile
endif

" refresh the (remote) directory listing
" call Decho("refresh remote directory listing")
call s:NetrwRefresh(0,s:NetrwBrowseChgDir(0,'/'))
call netrw#NetrwRestorePosn(svpos)

" call Dret("s:NetrwRemoteRm")
endfun

" -----
" s:NetrwRemoteRmFile: { { 2
fun! s:NetrwRemoteRmFile(path,rmfile,all)
" call Dfunc("s:NetrwRemoteRmFile(path<".a:path."> rmfile<".a:rmfile.">) all=" .a:all)

let all= a:all
let ok = ""

if a:rmfile !~ '^"' && (a:rmfile =~ '@$' || a:rmfile !~ '[V]$')
" attempt to remove file
" call Decho("attempt to remove file (all=".all.")")
if !all
echohl Statement
" call Decho("case all=0:")
call inputsave()
let ok= input("Confirm deletion of file<".a:rmfile."> ", "[y(es)},n(o),a(ll),q(uit)] ")
call inputrestore()
echohl NONE
if ok == ""
let ok="no"
endif
let ok= substitute(ok, "[y(es)},n(o),a(ll),q(uit)]s*", 'e')
if ok =~ 'a\%[ll]'
let all= 1
endif
endif

if all || ok =~ 'y\%[es]' || ok == ""
" call Decho("case all=".all." or ok<".ok.">".(exists("w:netrw_method")? ': netrw_method=' .w:netrw_method :

```

```

""))
if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
"  call Decho("case ftp:")
let path= a:path
if path =~ '\a\+://'
let path= substitute(path,'\a\+://[^/]\+',",")
endif
silent! keepjumps .,$d
call s:NetrwRemoteFtpCmd(path,"delete ".a:rmfile."")
else
"  call Decho("case ssh: g:netrw_rm_cmd<"g:netrw_rm_cmd.">")
let netrw_rm_cmd= s:MakeSshCmd(g:netrw_rm_cmd)
"  call Decho("netrw_rm_cmd<".netrw_rm_cmd.">")
if !exists("b:netrw_curdir")
call netrw#ErrorMsg(s:ERROR,"for some reason b:netrw_curdir doesn't exist!",53)
let ok="q"
else
let remotedir= substitute(b:netrw_curdir,'^.*//[^\|]+\|(\.*)$',\1,")
"  call Decho("netrw_rm_cmd<".netrw_rm_cmd.">")
"  call Decho("remotedir<".remotedir.">")
"  call Decho("rmfile<".a:rmfile.">")
if remotedir != ""
let netrw_rm_cmd= netrw_rm_cmd." ".shellescape(fnamescape(remotedir.a:rmfile))
else
let netrw_rm_cmd= netrw_rm_cmd." ".shellescape(fnamescape(a:rmfile))
endif
"  call Decho("call system(".netrw_rm_cmd.")")
let ret= system(netrw_rm_cmd)
if ret != 0
call netrw#ErrorMsg(s:WARNING,"cmd<".netrw_rm_cmd."> failed",60)
endif
"  call Decho("returned=".ret." errcode=".v:shell_error)
endif
endif
elseif ok =~ 'q\%[uit]'
"  call Decho("ok=="ok)
break
endif

else
" attempt to remove directory
"  call Decho("attempt to remove directory")
if !all
call inputsave()
let ok= input("Confirm deletion of directory<".a:rmfile."> ", "[y(es)},n(o),a(ll),q(uit)] ")
call inputrestore()
if ok == ""
let ok="no"

```

```

endif
let ok= substitute(ok,\[{\y(es)},n(o),a(ll),q(uit)]\s*','e')
if ok =~ 'a\%[ll]'
  let all= 1
endif
endif

if all || ok =~ 'y\%[es]' || ok == ""
if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
  call s:NetrwRemoteFtpCmd(a:path,"rmdir ".a:rmfile)
else
  let rmfile      = substitute(a:path.a:rmfile,'/$',"")
  let netrw_rmdir_cmd = s:MakeSshCmd(s:WinPath(g:netrw_rmdir_cmd)).' .shellescape(s:WinPath(rmfile))
"   call Decho("attempt to remove dir: system(".netrw_rmdir_cmd.")")
  let ret= system(netrw_rmdir_cmd)
"   call Decho("returned=".ret." errcode=".v:shell_error)

  if v:shell_error != 0
"   call Decho("v:shell_error not 0")
    let netrw_rmfile_cmd= s:MakeSshCmd(s:WinPath(g:netrw_rmfile_cmd)).'
.shellescape(s:WinPath(substitute(rmfile,[V/]$',"e'))))
"   call Decho("2nd attempt to remove dir: system(".netrw_rmfile_cmd.")")
    let ret= system(netrw_rmfile_cmd)
"   call Decho("returned=".ret." errcode=".v:shell_error)

  if v:shell_error != 0 && !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,"unable to remove directory<".rmfile."> -- is it empty?",22)
  endif
endif
endif

elseif ok =~ 'q\%[uit]'
  break
endif
endif

" call Dret("s:NetrwRemoteRmFile ".ok)
return ok
endfun

" -----
" s:NetrwRemoteFtpCmd: unfortunately, not all ftp servers honor options for ls {{{2
" This function assumes that a long listing will be received. Size, time,
" and reverse sorts will be requested of the server but not otherwise
" enforced here.
fun! s:NetrwRemoteFtpCmd(path,listcmd)
" call Dfunc("NetrwRemoteFtpCmd(path<".a:path."> listcmd<".a:listcmd.">) netrw_method=".w:netrw_method)
" call Decho("line($)=" .line("$")." bannercnt=".w:netrw_bannercnt)

```

```

" because WinXX ftp uses unix style input
let ffkeep= &ff
setlocal ma ff=unix noro
" call Decho("setlocal ma ff=unix noro")

" clear off any older non-banner lines
" note that w:netrw_bannercnt indexes the line after the banner
" call Decho('exe silent! keepjumps '.w:netrw_bannercnt.",$d (clear off old non-banner lines)")
exe "silent! keepjumps ".w:netrw_bannercnt.",$d"

".....
if w:netrw_method == 2 || w:netrw_method == 5
" ftp + <.netrc>: Method #2
if a:path != ""
put =cd \".a:path.\"
endif
if exists("g:netrw_ftpextracmd")
put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('.'))
endif
call setline(line("$")+1,a:listcmd)
" exe "keepjumps ".w:netrw_bannercnt.',$g/^./call Decho("ftp#.line(".").": ".getline("."))'
if exists("g:netrw_port") && g:netrw_port != ""
" call Decho("exe ".s:netrw_silentxfer.w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1)." ".shellescape(g:netrw_port,1))
exe s:netrw_silentxfer." keepjumps ".w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1)." ".shellescape(g:netrw_port,1)
else
" call Decho("exe ".s:netrw_silentxfer.w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1))
exe s:netrw_silentxfer." keepjumps ".w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1)
endif

".....
elseif w:netrw_method == 3
" ftp + machine,id,passwd,filename: Method #3
setlocal ff=unix
if exists("g:netrw_port") && g:netrw_port != ""
put =open '.g:netrw_machine.''.g:netrw_port
else
put =open '.g:netrw_machine
endif

if exists("g:netrw_ftp") && g:netrw_ftp == 1
put =g:netrw_uid
put =\".s:netrw_passwd.\"

```

```

else
  put ='user \"\".g:netrw_uid.\"\" \"\".s:netrw_passwd.\"\"
endif

if a:path != ""
  put ='cd \"\".a:path.\"\"
endif
if exists("g:netrw_ftpextracmd")
  put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('.'))
endif
call setline(line("$")+1,a:listcmd)

" perform ftp:
" -i      : turns off interactive prompting from ftp
" -n unix : DON'T use <.netrc>, even though it exists
" -n win32: quit being obnoxious about password
" exe w:netrw_bannercnt.,$g/^./call Decho("ftp#".line("."): ".getline("."))'
" call Decho("exe ".s:netrw_silentxfer.w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i -n")
exe s:netrw_silentxfer.w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i -n

".....
else
  call netrw#ErrorMsg(s:WARNING,"unable to comply with your request<" . choice . ">",23)
endif

" cleanup for Windows
if has("win32") || has("win95") || has("win64") || has("win16")
  silent! keepjumps %s\r$/e
endif
if a:listcmd == "dir"
  " infer directory/link based on the file permission string
  silent! keepjumps g/d%\%([-r][-w][-x])\{3}/s@$@/@
  silent! keepjumps g/l%\%([-r][-w][-x])\{3}/s$/@/
  if w:netrw_liststyle == s:THINLIST || w:netrw_liststyle == s:WIDELIST || w:netrw_liststyle == s:TREELIST
    exe "silent! keepjumps ".w:netrw_bannercnt.,$s/^%\%(\S\+\s\+)\)\{8}/e'
  endif
endif

" ftp's listing doesn't seem to include ./ or ../
if !search('^.\.$\|s\.\.$','wn')
  exe 'keepjumps '.w:netrw_bannercnt
  put = './'
endif
if !search('^.\.$\|s\.\.$','wn')
  exe 'keepjumps '.w:netrw_bannercnt
  put = '../'
endif

```

```

" restore settings
let &ff= ffkeep
" call Dret("NetrwRemoteFtpCmd")
endfun

" -----
" s:NetrwRemoteRename: rename a remote file or directory {{{2
fun! s:NetrwRemoteRename(usrhost,path) range
" call Dfunc("NetrwRemoteRename(usrhost<".a:usrhost."> path<".a:path.">")")

" preparation for removing multiple files/directories
let svpos = netrw#NetrwSavePosn()
let ctr = a:firstline
let rename_cmd = s:MakeSshCmd(g:netrw_rename_cmd)

" rename files given by the markfilelist
if exists("s:netrwmarkfilelist_{bufnr('%')}")
for oldname in s:netrwmarkfilelist_{bufnr("%")}
" call Decho("oldname<".oldname.">")
if exists("subfrom")
let newname= substitute(oldname,subfrom,subto,")
" call Decho("subfrom<".subfrom."> subto<".subto."> newname<".newname.">")
else
call inputsave()
let newname= input("Moving ".oldname." to : ".oldname)
call inputrestore()
if newname =~ '^s/'
let subfrom = substitute(newname,'^s/([^\s]*)/.*$/','\1',')
let subto = substitute(newname,'^s/[^\s]*\.(.*)/','$','\1',')
let newname = substitute(oldname,subfrom,subto,")
" call Decho("subfrom<".subfrom."> subto<".subto."> newname<".newname.">")
endif
endif

if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
call s:NetrwRemoteFtpCmd(a:path,"rename ".oldname." ".newname)
else
let oldname= shellescape(a:path.oldname)
let newname= shellescape(a:path.newname)
" call Decho("system(s:WinPath(".rename_cmd.") ".oldname.'"'.newname.'"")")
let ret = system(s:WinPath(rename_cmd)'"'.oldname.'"'.newname)
endif

endifor
call s:NetrwUnMarkFile(1)

else

```

```

" attempt to rename files/directories
while ctr <= a:lastline
  exe "keepjumps ".ctr

  let oldname= s:NetrwGetWord()
"  call Decho("oldname<".oldname.">")

  call inputsave()
  let newname= input("Moving ".oldname." to : ",oldname)
  call inputrestore()

  if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
    call s:NetrwRemoteFtpCmd(a:path,"rename ".oldname." ".newname)
  else
    let oldname= shellescape(a:path.oldname)
    let newname= shellescape(a:path.newname)
"    call Decho("system(s:WinPath(".rename_cmd.") ".oldname.'"'.newname.'"")")
    let ret = system(s:WinPath(rename_cmd)'"'.oldname.'"'.newname)
  endif

  let ctr= ctr + 1
endwhile
endif

" refresh the directory
call s:NetrwRefresh(0,s:NetrwBrowseChgDir(0,./))
call netrw#NetrwRestorePosn(svpos)

" call Dret("NetrwRemoteRename")
endfun

" -----
" Local Directory Browsing Support: {{{1
" =====

" -----
" netrw#LocalBrowseCheck: {{{2
fun! netrw#LocalBrowseCheck(dirname)
" unfortunate interaction -- split window debugging can't be
" used here, must use D-echoRemOn or D-echoTabOn -- the BufEnter
" event triggers another call to LocalBrowseCheck() when attempts
" to write to the DBG buffer are made.
" The &ft == "netrw" test was installed because the BufEnter event
" would hit when re-entering netrw windows, creating unexpected
" refreshes (and would do so in the middle of NetrwSaveOptions(), too)
" call Decho("netrw#LocalBrowseCheck: isdir<".a:dirname.">=".isdirectory(a:dirname))
if isdirectory(a:dirname)

```

```

" call Decho(" ft<".&ft."> b:netrw_curdir<".(exists("b:netrw_curdir")? b:netrw_curdir : " doesn't exist").">
dirname<".a:dirname.">." line($)="line("$)")
if &ft != "netrw" || (exists("b:netrw_curdir") && b:netrw_curdir != a:dirname)
  silent! call s:NetrwBrowse(1,a:dirname)
elseif &ft == "netrw" && line("$") == 1
  silent! call s:NetrwBrowse(1,a:dirname)
endif
endif
" not a directory, ignore it
endfun

" -----
" s:LocalListing: does the job of "ls" for local directories {{{2
fun! s:LocalListing()
" call Dfunc("s:LocalListing()")
" call Decho("&ma=".&ma)
" call Decho("&mod=".&mod)
" call Decho("&ro=".&ro)
" call Decho("bufname(%)<".bufname("%").">")

" if exists("b:netrw_curdir") |call Decho('b:netrw_curdir<'.b:netrw_curdir.">') |else|call Decho("b:netrw_curdir
doesn't exist") |endif
" if exists("g:netrw_sort_by")|call Decho('g:netrw_sort_by<'.g:netrw_sort_by.">')|else|call Decho("g:netrw_sort_by
doesn't exist")|endif

" get the list of files contained in the current directory
let dirname = escape(b:netrw_curdir,g:netrw_glob_escape)
if dirname =~ '\.\'
  let dirname = substitute(dirname,['^/\.\.','.','g'])
endif
if dirname == "
  let dirname = '/'
endif
let dirnamelen = strlen(dirname)
let filelist = glob(s:ComposePath(dirname,"*"))
" call Decho("glob(dirname<".dirname."/.*>)="filelist)
if filelist != ""
  let filelist= filelist."\\n"
endif
let filelist= filelist.glob(s:ComposePath(dirname,"*"))
" call Decho("glob(dirname<".dirname."/.*>)="filelist)

" Coding choice: either elide ./ if present
"           or include ./ if not present
if filelist =~ '[\\]\.\\.\]=\(\n\$)'
" elide /path/. from glob() entries if present
" call Decho("elide /path/. from glob entries if present")
let filelist = substitute(filelist,'\\n','t','g')

```

```

let filelist = substitute(filelist, '^[\t]+\.[\t].t', '')
let filelist = substitute(filelist, '^[\t]+\.[\t].$', '')
let filelist = substitute(filelist, '\t\zs^[\t]+\.[\t].t', '')
let filelist = substitute(filelist, '\t', '\n', 'g')
endif
" call Decho("filelist<".filelist.">")
if filelist !~ '[\V]\.\.[\V]\.=\(\n\|$\)'
" include ../ in the glob() entry if its missing
" call Decho("forcibly tacking on ..")
let filelist= filelist." \n".s:ComposePath(dirname, "../")
" call Decho("filelist<".filelist.">")
endif
if dirname == '/'
" remove .. from filelist when current directory is root directory
" call Decho("remove .. from filelist")
let filelist= substitute(filelist, '\.\.\n', '')
endif
" remove multiple contiguous newlines
let filelist= substitute(filelist, '\n\{2,}', '\n', 'ge')
if !g:netrw_cygwin && (has("win32") || has("win95") || has("win64") || has("win16"))
" change all \s to /s
" call Decho('change all \s to /s')
let filelist= substitute(filelist, '\s', '/', 'g')
else
" escape all \s to \\
" call Decho('escape all \s to \\')
let filelist= substitute(filelist, '\s', '\\', 'g')
endif

" call Decho("(before while) dirname<".dirname.">")
" call Decho("(before while) dirnamelen<".dirnamelen.">")
" call Decho("(before while) filelist<".filelist.">")

while filelist != ""
if filelist =~ '\n'
let filename = substitute(filelist, '\n.*$', '', 'e')
let filelist = substitute(filelist, '^.\{-}\n\(.*)$', '\1', 'e')
else
let filename = filelist
let filelist = ""
endif
" call Decho(" ")
" call Decho("(while) filelist<".filelist.">")
" call Decho("(while) filename<".filename.">")

if getftype(filename) == "link"
" indicate a symbolic link
" call Decho("indicate <".filename."> is a symbolic link with trailing @")

```

```

let pfile= filename."@"

elseif getftype(filename) == "socket"
    " indicate a socket
" call Decho("indicate <".filename."> is a socket with trailing =")
let pfile= filename."="

elseif getftype(filename) == "fifo"
    " indicate a fifo
" call Decho("indicate <".filename."> is a fifo with trailing |")
let pfile= filename."|"

elseif isdirectory(filename)
    " indicate a directory
" call Decho("indicate <".filename."> is a directory with trailing /")
let pfile= filename."/"

elseif exists("b:netrw_curdir") && b:netrw_curdir !~ '^.*:/' && !isdirectory(filename)
if (has("win32") || has("win95") || has("win64") || has("win16"))
    if filename =~ '\.[eE][xX][eE]$\| filename =~ '\.[cC][oO][mM]$\| filename =~ '\.[bB][aA][tT]$\|
        " indicate an executable
" call Decho("indicate <".filename."> is executable with trailing *")
let pfile= filename."*"
    else
        " normal file
let pfile= filename
    endif
elseif executable(filename)
    " indicate an executable
" call Decho("indicate <".filename."> is executable with trailing *")
let pfile= filename."*"
    else
        " normal file
let pfile= filename
    endif

else
    " normal file
let pfile= filename
endif

" call Decho("pfile<".pfile."> (after *@/ appending)")

if pfile =~ '//$'
let pfile= substitute(pfile,'//$', '/', 'e')
" call Decho("change // to /: pfile<".pfile.">")
endif
let pfile= strpart(pfile,dirnamelen)
let pfile= substitute(pfile,'^[\\]', '/', 'e')

```

```

" call Decho("filename<".filename.">")
" call Decho("pfile <".pfile.">")

if w:netrw_liststyle == s:LONGLIST
  let sz = getfsize(filename)
  let fsz = strpart(" ",1,15-s:Strlen(sz)).sz
  let pfile= pfile."\t".fsz." ".strftime(g:netrw_timefmt,getftime(filename))
" call Decho("sz=".sz." fsz=".fsz)
endif

if g:netrw_sort_by =~ "^t"
  " sort by time (handles time up to 1 quintillion seconds, US)
" call Decho("getftime(".filename.)="getftime(filename))
  let t = getftime(filename)
  let ft = strpart("000000000000000000",1,18-s:Strlen(t)).t
" call Decho("exe keepjumps put =".ft.'/'.filename."")
  let ftpfile= ft.'/'.pfile
  keepjumps silent! put=ftpfile

elseif g:netrw_sort_by =~ "^s"
  " sort by size (handles file sizes up to 1 quintillion bytes, US)
" call Decho("getfsize(".filename.)="getfsize(filename))
  let sz = getfsize(filename)
  let fsz = strpart("000000000000000000",1,18-s:Strlen(sz)).sz
" call Decho("exe keepjumps put =".fsz.'/'.filename."")
  let fszpfile= fsz.'/'.pfile
  keepjumps silent! put =fszpfile

else
  " sort by name
" call Decho("exe keepjumps put =".pfile."")
  keepjumps silent! put=pfile
endif
endwhile

" cleanup any windows mess at end-of-line
silent! keepjumps %s\r$/e
exe "setlocal ts=".g:netrw_maxfilenamelen
" call Decho("setlocal ts=".g:netrw_maxfilenamelen)

" call Dret("s:LocalListing")
endfun

" -----
" s:LocalBrowseShellCmdRefresh: this function is called after a user has {{2
" performed any shell command. The idea is to cause all local-browsing
" buffers to be refreshed after a user has executed some shell command,
" on the chance that s/he removed/created a file/directory with it.

```

```

fun! s:LocalBrowseShellCmdRefresh()
" call Dfunc("LocalBrowseShellCmdRefresh() browselist=".exists("s:netrw_browselist")?
string(s:netrw_browselist) : "empty")." ".tabpagenr("$")." tabs")
" determine which buffers currently reside in a tab
if !exists("s:netrw_browselist")
" call Dret("LocalBrowseShellCmdRefresh : browselist is empty")
return
endif
if !exists("w:netrw_bannercnt")
" call Dret("LocalBrowseShellCmdRefresh : don't refresh when focus not on netrw window")
return
endif
if exists("s:locbrowseshellcmd")
if s:locbrowseshellcmd
let s:locbrowseshellcmd= 0
" call Dret("LocalBrowseShellCmdRefresh : NetrwBrowse itself caused the refresh")
return
endif
let s:locbrowseshellcmd= 0
endif
let itab = 1
let buftablist = []
while itab <= tabpagenr("$")
let buftablist = buftablist + tabpagebuflist()
let itab = itab + 1
tabn
endwhile
" call Decho("buftablist".string(buftablist))
" call Decho("s:netrw_browselist<".exists("s:netrw_browselist")? string(s:netrw_browselist) : "").">")
" GO through all buffers on netrw_browselist (ie. just local-netrw buffers):
" | refresh any netrw window
" | wipe out any non-displaying netrw buffer
let curwin = winnr()
let ibl = 0
for ibuf in s:netrw_browselist
" call Decho("bufwinnr(".ibuf.") index(buftablist,".ibuf.")=".index(buftablist,ibuf))
if bufwinnr(ibuf) == -1 && index(buftablist,ibuf) == -1
" wipe out any non-displaying netrw buffer
" call Decho("wiping buf#" .ibuf."<".bufname(ibuf).">")
exe "silent! bd ".fnameescape(ibuf)
call remove(s:netrw_browselist,ibl)
" call Decho("browselist=".string(s:netrw_browselist))
continue
elseif index(tabpagebuflist(),ibuf) != -1
" refresh any netrw buffer
" call Decho("refresh buf#" .ibuf."> win#" .bufwinnr(ibuf))
exe bufwinnr(ibuf)."wincmd w"
call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,'/'))

```

```

endif
let ibl= ibl + 1
endfor
exe curwin."wincmd w"

" call Dret("LocalBrowseShellCmdRefresh")
endfun

" -----
" s:NetrwLocalRm: {{2
fun! s:NetrwLocalRm(path) range
" call Dfunc("s:NetrwLocalRm(path<".a:path.">)")
" call Decho("firstline=" .a:firstline." lastline=" .a:lastline)

" preparation for removing multiple files/directories
let ret = 0
let all = 0
let svpos = netrw#NetrwSavePosn()

if exists("s:netrwmarkfilelist_{bufnr('%')}")
" remove all marked files
" call Decho("remove all marked files")
for fname in s:netrwmarkfilelist_{bufnr("%")}
let ok= s:NetrwLocalRmFile(a:path,fname,all)
if ok =~ 'q\%[uit]' || ok == "no"
break
elseif ok =~ 'a\%[ll]'
let all= 1
endif
endfor
call s:NetrwUnMarkFile(1)

else
" remove (multiple) files and directories
" call Decho("remove files in range [" .a:firstline." .a:lastline."])

let ctr = a:firstline
while ctr <= a:lastline
exe "keepjumps " .ctr

" sanity checks
if line(".") < w:netrw_bannercnt
let ctr= ctr + 1
continue
endif
let curword= s:NetrwGetWord()
if curword == "/" || curword == "../"
let ctr= ctr + 1

```

```

    continue
endif
let ok= s:NetrwLocalRmFile(a:path,curword,all)
if ok =~ 'q%'[uit] || ok == "no"
    break
elseif ok =~ 'a%'[ll]
    let all= 1
endif
let ctr= ctr + 1
endwhile
endif

" refresh the directory
" call Decho("bufname<".bufname("%").">")
if bufname("%") != "NetrwMessage"
    call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,'/'))
    call netrw#NetrwRestorePosn(svpos)
endif

" call Dret("s:NetrwLocalRm")
endfun

" -----
" s:NetrwLocalRmFile: remove file fname given the path {{ {2
"           Give confirmation prompt unless all==1
fun! s:NetrwLocalRmFile(path,fname,all)
" call Dfunc("s:NetrwLocalRmFile(path<".a:path."> fname<".a:fname."> all="a:all)

let all= a:all
let ok = ""
norm! 0
let rmfile= s:ComposePath(a:path,a:fname)
" call Decho("rmfile<".rmfile.">")

if rmfile !~ '^"' && (rmfile =~ '@$' || rmfile !~ '[\V/$]')
" attempt to remove file
" call Decho("attempt to remove file<".rmfile.">")
if !all
    echohl Statement
    call inputsave()
    let ok= input("Confirm deletion of file<".rmfile."> ", "[{y(es)},n(o),a(ll),q(uit)] ")
    call inputrestore()
    echohl NONE
    if ok == ""
        let ok="no"
    endif
" call Decho("response: ok<".ok.">")
let ok= substitute(ok, \[ {y(es)},n(o),a(ll),q(uit)]\s*','e')

```

```

" call Decho("response: ok<" .ok."> (after sub)")
if ok =~ 'a\[ll]'
  let all= 1
endif
endif

if all || ok =~ 'y\[es]' || ok == ""
  let ret= s:NetrwDelete(rmfile)
" call Decho("errcode=" .v:shell_error." ret=" .ret)
endif

else
" attempt to remove directory
if !all
echohl Statement
call inputsave()
let ok= input("Confirm deletion of directory<".rmfile."> ", "[{y(es)},n(o),a(ll),q(uit)] ")
call inputrestore()
let ok= substitute(ok, "[{y(es)},n(o),a(ll),q(uit)]s*", "'e'")
if ok == ""
  let ok="no"
endif
if ok =~ 'a\[ll]'
  let all= 1
endif
endif
let rmfile= substitute(rmfile, '[\|]$', "'e'")

if all || ok =~ 'y\[es]' || ok == ""
" call Decho("1st attempt: system(s:WinPath(" .g:netrw_local_rmdir.' ' .shellescape(rmfile).''))
call system(s:WinPath(g:netrw_local_rmdir.' ' .shellescape(rmfile)))
" call Decho("v:shell_error=" .v:shell_error)

if v:shell_error != 0
" call Decho("2nd attempt to remove directory<".rmfile.">")
let errcode= s:NetrwDelete(rmfile)
" call Decho("errcode=" .errcode)

if errcode != 0
if has("unix")
" call Decho("3rd attempt to remove directory<".rmfile.">")
call system("rm " .shellescape(rmfile))
if v:shell_error != 0 && !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR, "unable to remove directory<".rmfile."> -- is it empty?",34)
let ok="no"
endif
elseif !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR, "unable to remove directory<".rmfile."> -- is it empty?",35)

```

```

    let ok="no"
    endif
  endif
endif
endif
endif

" call Dret("s:NetrwLocalRmFile ".ok)
return ok
endfun

" -----
" s:NetrwLocalRename: rename a remote file or directory {{{2
fun! s:NetrwLocalRename(path) range
" call Dfunc("NetrwLocalRename(path<" :a:path.">")

" preparation for removing multiple files/directories
let ctr = a:firstline
let svpos= netrw#NetrwSavePosn()

" rename files given by the markfilelist
if exists("s:netrwmarkfilelist_{bufnr('%')}")
  for oldname in s:netrwmarkfilelist_{bufnr("%")}
"   call Decho("oldname<" :oldname.">")
    if exists("subfrom")
      let newname= substitute(oldname,subfrom,subto,")
"   call Decho("subfrom<" :subfrom."> subto<" :subto."> newname<" :newname.">")
    else
      call inputsave()
      let newname= input("Moving ".oldname." to : ".oldname)
      call inputrestore()
      if newname =~ '^s/'
        let subfrom = substitute(newname,'^s\([^/]*\)'.*/$',\1',")
        let subto = substitute(newname,'^s\([^/]*\)(.*)/$',\1',")
"   call Decho("subfrom<" :subfrom."> subto<" :subto."> newname<" :newname.">")
        let newname = substitute(oldname,subfrom,subto,")
      endif
    endif
    call rename(oldname,newname)
  endfor
  call s:NetrwUnmarkList(bufnr("%"),b:netrw_curdir)

else

" attempt to rename files/directories
while ctr <= a:lastline
  exe "keepjumps ".ctr

```

```

" sanity checks
if line(".") < w:netrw_bannercnt
  let ctr= ctr + 1
  continue
endif
let curword= s:NetrwGetWord()
if curword == "/" || curword == "./"
  let ctr= ctr + 1
  continue
endif

norm! 0
let oldname= s:ComposePath(a:path,curword)
" call Decho("oldname<".oldname.">")

call inputsave()
let newname= input("Moving ".oldname." to : ",substitute(oldname,'*$','e'))
call inputrestore()

call rename(oldname,newname)
" call Decho("renaming <".oldname."> to <".newname.">")

  let ctr= ctr + 1
  endwhile
endif

" refresh the directory
" call Decho("refresh the directory listing")
call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,'/'))
call netrw#NetrwRestorePosn(svpos)

" call Dret("NetrwLocalRename")
endfun

" -----
" s:LocalFastBrowser: handles setting up/taking down fast browsing for the local browser {{{2
"
"   g:netrw_  Directory Is
"   fastbrowse Local Remote
" slow  0    D  D   D=Deleting a buffer implies it will not be re-used (slow)
" med  1    D  H   H=Hiding a buffer implies it may be re-used   (fast)
" fast  2    H  H
"
" Deleting a buffer means that it will be re-loaded when examined, hence "slow".
" Hiding a buffer means that it will be re-used when examined, hence "fast".
"   (re-using a buffer may not be as accurate)
fun! s:LocalFastBrowser()
" call Dfunc("LocalFastBrowser() g:netrw_fastbrowse="g:netrw_fastbrowse)

```

```

" initialize browselist, a list of buffer numbers that the local browser has used
if !exists("s:netrw_browselist")
" call Decho("initialize s:netrw_browselist")
let s:netrw_browselist= []
endif

" append current buffer to fastbrowse list
if empty(s:netrw_browselist) || bufnr("%") > s:netrw_browselist[-1]
" call Decho("appendng current buffer to browselist")
call add(s:netrw_browselist,bufnr("%"))
" call Decho("browselist=".string(s:netrw_browselist))
endif

" enable autocmd events to handle refreshing/removing local browser buffers
" If local browse buffer is currently showing: refresh it
" If local browse buffer is currently hidden : wipe it
if !exists("s:netrw_browser_shellcmd") && g:netrw_fastbrowse <= 1
" call Decho("setting up local-browser shell command refresh")
let s:netrw_browser_shellcmd= 1
augroup AuNetrwShellCmd
au!
if (has("win32") || has("win95") || has("win64") || has("win16"))
" call Decho("autocmd: ShellCmdPost * call s:LocalBrowseShellCmdRefresh()")
au ShellCmdPost * call s:LocalBrowseShellCmdRefresh()
else
au ShellCmdPost,FocusGained * call s:LocalBrowseShellCmdRefresh()
" call Decho("autocmd: ShellCmdPost,FocusGained * call s:LocalBrowseShellCmdRefresh()")
endif
augroup END
endif

" user must have changed fastbrowse to its fast setting, so remove
" the associated autocmd events
if g:netrw_fastbrowse > 1 && exists("s:netrw_browser_shellcmd")
" call Decho("remove AuNetrwShellCmd autocmd group")
unlet s:netrw_browser_shellcmd
augroup AuNetrwShellCmd
au!
augroup END
augroup! AuNetrwShellCmd
endif

" call Dret("LocalFastBrowser : browselist<".string(s:netrw_browselist).">")
endfun

" -----
" Support Functions: {{{1

```

```

" -----
netrw#ErrorMsg: {{2
" 0=note   = s:NOTE
" 1=warning = s:WARNING
" 2=error   = s:ERROR
" Oct 12, 2008 : max errnum currently is 73
fun! netrw#ErrorMsg(level,msg,errnum)
" call Dfunc("netrw#ErrorMsg(level=".a:level." msg<".a:msg."> errnum=".a:errnum.")
g:netrw_use_errorwindow=".g:netrw_use_errorwindow)

if a:level == 1
  let level= "***warning**" (netrw) "
elseif a:level == 2
  let level= "***error**" (netrw) "
else
  let level= "***note**" (netrw) "
endif
" call Decho("level=".level)

if g:netrw_use_errorwindow
" (default) netrw creates a one-line window to show error/warning
" messages (reliably displayed)

" record current window number for NetrwRestorePosn()'s benefit
let s:winBeforeErr= winnr()
" call Decho("s:winBeforeErr=".s:winBeforeErr)

" getting messages out reliably is just plain difficult!
" This attempt splits the current window, creating a one line window.
if bufoexists("NetrwMessage") && bufwinnr("NetrwMessage") > 0
" call Decho("write to NetrwMessage buffer")
exe bufwinnr("NetrwMessage")."wincmd w"
" call Decho("setlocal ma noro")
setlocal ma noro
call setline(line("$")+1,level.a:msg)
$
else
" call Decho("create a NetrwMessage buffer window")
bo 1split
enew
setlocal bt=nofile
file NetrwMessage
" call Decho("setlocal ma noro")
setlocal ma noro
call setline(line("$"),level.a:msg)
endif
" call Decho("wrote msg<".level.a:msg."> to NetrwMessage win#" .winnr())

```

```

if &fo !~ '[ta]'
  syn clear
  syn match netrwMesgNote "\|*\|*note\|*"
  syn match netrwMesgWarning "\|*\|*warning\|*"
  syn match netrwMesgError "\|*\|*error\|*"
  hi link netrwMesgWarning WarningMsg
  hi link netrwMesgError Error
endif

setlocal noma ro bh=wipe

else
  " (optional) netrw will show messages using echomsg. Even if the
  " message doesn't appear, at least it'll be recallable via :messages
  " redraw!
  if a:level == s:WARNING
    echohl WarningMsg
  elseif a:level == s:ERROR
    echohl Error
  endif
  echomsg level.a:msg
  " call Decho("echomsg ***netrw*** " .a:msg)
  echohl None
endif

" call Dret("netrw#ErrorMsg")
endfun

" -----
" netrw#NetrwRestorePosn: restores the cursor and file position as saved by NetrwSavePosn() {{{2
fun! netrw#NetrwRestorePosn(...)
  " call Dfunc("netrw#NetrwRestorePosn() a:0=" .a:0." winnr=".(exists("w:netrw_winnr"))? w:netrw_winnr : -1)."
  line=".(exists("w:netrw_line"))? w:netrw_line : -1)." col=".(exists("w:netrw_col"))? w:netrw_col : -1)."
  hline=".(exists("w:netrw_hline"))? w:netrw_hline : -1))
  let eikeep= &ei
  set ei=all
  if expand("%") == "NetrwMessage"
    exe s:winBeforeErr."wincmd w"
  endif

  if a:0 > 0
    exe a:1
  endif

  " restore window
  if exists("w:netrw_winnr")
    " call Decho("restore window: exe silent! " .w:netrw_winnr."wincmd w")
    exe "silent! " .w:netrw_winnr."wincmd w"
  endif

```

```

if v:shell_error == 0
  " as suggested by Bram M: redraw on no error
  " allows protocol error messages to remain visible
  " redraw!
endif

" restore top-of-screen line
if exists("w:netrw_hline")
  " call Decho("restore topofscreen: exe norm! ".w:netrw_hline."G0z")
  exe "norm! ".w:netrw_hline."G0z<CR>"
endif

" restore position
if exists("w:netrw_line") && exists("w:netrw_col")
  " call Decho("restore posn: exe norm! ".w:netrw_line."G0".w:netrw_col."|")
  exe "norm! ".w:netrw_line."G0".w:netrw_col."|<bar>"
endif

let &ei= eikeep
" call Dret("netrw#NetrwRestorePosn")
endfun

" -----
" netrw#NetrwSavePosn: saves position of cursor on screen {{{2
fun! netrw#NetrwSavePosn()
  " call Dfunc("netrw#NetrwSavePosn()")
  " Save current line and column
  let w:netrw_winnr= winnr()
  let w:netrw_line = line(".")
  let w:netrw_col = virtcol(".")

  " Save top-of-screen line
  norm! H0
  let w:netrw_hline= line(".")

  " set up string holding position parameters
  let ret = "let w:netrw_winnr=".w:netrw_winnr."|let w:netrw_line=".w:netrw_line."|let
w:netrw_col=".w:netrw_col."|let w:netrw_hline=".w:netrw_hline

  call netrw#NetrwRestorePosn()
  " call Dret("netrw#NetrwSavePosn : winnr=".w:netrw_winnr." line=".w:netrw_line." col=".w:netrw_col."
hline=".w:netrw_hline)
  return ret
endfun

" -----
" netrw#RFC2396: converts %xx into characters {{{2
fun! netrw#RFC2396(fname)

```

```

" call Dfunc("netrw#RFC2396(fname<".a:fname.">")
let fname = escape(substitute(a:fname,'%\\(\x\x)\',\=nr2char("0x".submatch(1))','ge'),'t')
" call Dret("netrw#RFC2396 ".fname)
return fname
endfun

" -----
" s:ComposePath: Appends a new part to a path taking different systems into consideration {{{2
fun! s:ComposePath(base,subdir)
" call Dfunc("s:ComposePath(base<".a:base."> subdir<".a:subdir.">")

if(has("amiga"))
" call Decho("amiga")
let ec = a:base[strlen(a:base)-1]
if ec != '/' && ec != ':'
let ret = a:base . "/" . a:subdir
else
let ret = a:base . a:subdir
endif

elseif a:subdir =~ '\a:[^\[\]^\\]' && (has("win32") || has("win95") || has("win64") || has("win16"))
" call Decho("windows")
let ret= a:subdir

elseif a:base =~ '^a\+://'
" call Decho("remote linux/macos")
let urlbase = substitute(a:base,'^\(\a\+://\{-\}\)\(.*\)$','1',)
let curpath = substitute(a:base,'^\(\a\+://\{-\}\)\(.*\)$','2',)
if a:subdir == './'
if curpath =~ '[^/][^/]\+/$'
let curpath= substitute(curpath,'[^/]\+/$',",")
else
let curpath=""
endif
let ret= urlbase.curpath
else
let ret= urlbase.curpath.a:subdir
endif
" call Decho("urlbase<".urlbase.">")
" call Decho("curpath<".curpath.">")
" call Decho("ret<".ret.">")

else
" call Decho("local linux/macos")
let ret = substitute(a:base."/".a:subdir,"//","/", "g")
if a:base =~ '^/'
" keeping initial '/' for the benefit of network share listing support
let ret= './.ret

```

```

endif
let ret= simplify(ret)
endif

" call Dret("s:ComposePath ".ret)
return ret
endfun

" -----
" s:FileReadable: o/s independent filereadable {{{2
fun! s:FileReadable(fname)
" call Dfunc("s:FileReadable(fname<"a:fname.">")

if g:netrw_cygwin
let ret= filereadable(substitute(a:fname,'/cygdrive/(\.\/)',\1:'))
else
let ret= filereadable(a:fname)
endif

" call Dret("s:FileReadable ".ret)
return ret
endfun

" -----
" s:GetTempfile: gets a tempname that'll work for various o/s's {{{2
"         Places correct suffix on end of temporary filename,
"         using the suffix provided with fname
fun! s:GetTempfile(fname)
" call Dfunc("s:GetTempfile(fname<"a:fname.">")

if !exists("b:netrw_tmpfile")
" get a brand new temporary filename
let tmpfile= tempname()
" call Decho("tmpfile<"tmpfile."> : from tempname()")

let tmpfile= substitute(tmpfile,'\./','ge')
" call Decho("tmpfile<"tmpfile."> : chgd any \. -> /")

" sanity check -- does the temporary file's directory exist?
if !isdirectory(substitute(tmpfile,['^/]\+$','e'))
" call Decho("ro="&l:ro." ma="&l:ma." mod="&l:mod." wrap="&l:wrap)
call netrw#ErrorMsg(s:ERROR,"your <"substitute(tmpfile,['^/]\+$','e')."> directory is missing!",2)
" call Dret("s:GetTempfile getcwd<"getcwd().">")
return ""
endif

" let netrw#NetSource() know about the tmpfile
let s:netrw_tmpfile= tmpfile " used by netrw#NetSource() and netrw#NetrwBrowseX()

```

```

" call Decho("tmpfile<".tmpfile."> s:netrw_tmpfile<".s:netrw_tmpfile.">")

" o/s dependencies
if g:netrw_cygwin != 0
  let tmpfile = substitute(tmpfile, '^(\a):', '/cygdrive/\1', 'e')
elseif has("win32") || has("win95") || has("win64") || has("win16")
  if !exists("+shellslash") || !&ssl
    let tmpfile = substitute(tmpfile, '/', '\', 'g')
  endif
else
  let tmpfile = tmpfile
endif
let b:netrw_tmpfile= tmpfile
" call Decho("o/s dependent fixed tempname<".tmpfile.">")
else
" re-use temporary filename
let tmpfile= b:netrw_tmpfile
" call Decho("tmpfile<".tmpfile."> re-using")
endif

" use fname's suffix for the temporary file
if a:fname != ""
  if a:fname =~ '\.[^./]\+$'
" call Decho("using fname<".a:fname.">'s suffix")
if a:fname =~ '.tar.gz' || a:fname =~ '.tar.bz2'
  let suffix = ".tar".substitute(a:fname, '^.*\(\.[^./]\+\)$', '\1', 'e')
else
  let suffix = substitute(a:fname, '^.*\(\.[^./]\+\)$', '\1', 'e')
endif
" call Decho("suffix<".suffix.">")
let tmpfile= substitute(tmpfile, '\.tmp$', "", 'e')
" call Decho("chgd tmpfile<".tmpfile."> (removed any .tmp suffix)")
let tmpfile .= suffix
" call Decho("chgd tmpfile<".tmpfile."> (added ".suffix." suffix) netrw_fname<".b:netrw_fname.">")
let s:netrw_tmpfile= tmpfile " supports netrw#NetSource()
endif
endif

" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:GetTempfile <".tmpfile.">")
return tmpfile
endfun

" -----
" s:MakeSshCmd: transforms input command using USEPORT HOSTNAME into {{{2
" a correct command for use with a system() call
fun! s:MakeSshCmd(sshcmd)
" call Dfunc("s:MakeSshCmd(sshcmd<".a:sshcmd.">) user<".s:user."> machine<".s:machine.">")

```

```

let sshcmd = substitute(a:sshcmd, '\<HOSTNAME\>', s:user.s:machine,")
if exists("g:netrw_port") && g:netrw_port != ""
  let sshcmd= substitute(sshcmd, "USEPORT", g:netrw_sshport.''.g:netrw_port,")
elseif exists("s:port") && s:port != ""
  let sshcmd= substitute(sshcmd, "USEPORT", g:netrw_sshport.''.s:port,")
else
  let sshcmd= substitute(sshcmd, "USEPORT", "",")
endif
" call Dret("s:MakeSshCmd <".sshcmd.">")
return sshcmd
endfun

" -----
" s:NetrwBMSHOW: {{{2
fun! s:NetrwBMSHOW()
" call Dfunc("s:NetrwBMSHOW()")
redir => bmsHOWraw
  menu
redir END
let bmsHOWlist = split(bmsHOWraw, '\n')
if bmsHOWlist != []
  let bmsHOWfuncs= filter(bmsHOWlist, 'v:val =~ "<SNR>\|d\|+_BMSHOW()")
  if bmsHOWfuncs != []
    let bmsHOWfunc = substitute(bmsHOWfuncs[0], '^.*:\(call.*BMSHOW()\).*$', '\1,')
    if bmsHOWfunc =~ '^call.*BMSHOW()'
      exe "silent! ".bmsHOWfunc
    endif
  endif
endif
" call Dret("s:NetrwBMSHOW : bmsHOWfunc<".(exists("bmsHOWfunc")? bmsHOWfunc : 'n/a').">")
endfun

" -----
" s:NetrwDelete: Deletes a file. {{{2
"   Uses Steve Hall's idea to insure that Windows paths stay
"   acceptable. No effect on Unix paths.
" Examples of use: let result= s:NetrwDelete(path)
fun! s:NetrwDelete(path)
" call Dfunc("s:NetrwDelete(path<".a:path.">")

let path = s:WinPath(a:path)
if !g:netrw_cygwin && (has("win32") || has("win95") || has("win64") || has("win16"))
  if exists("+shellslash")
    let sskeep= &shellslash
    setlocal noshellslash
    let result = delete(path)
    let &shellslash = sskeep
  else

```

```

" call Decho("exe let result= ".a:cmd."("".path."")")
  let result= delete(path)
endif
else
" call Decho("let result= delete(".path."")")
  let result= delete(path)
endif
if result < 0
  call netrw#ErrorMsg(s:WARNING,"delete(".path.") failed!",71)
endif

" call Dret("s:NetrwDelete ".result)
return result
endfun

" -----
" s:NetrwEnew: opens a new buffer, passes netrw buffer variables through {{2
fun! s:NetrwEnew(curdir)
" call Dfunc("s:NetrwEnew(curdir<".a:curdir.">) buf#" .bufnr("%")."<".bufname("%").">")

" grab a function-local-variable copy of buffer variables
if exists("b:netrw_bannercnt") |let netrw_bannercnt = b:netrw_bannercnt |endif
if exists("b:netrw_browser_active") |let netrw_browser_active = b:netrw_browser_active |endif
if exists("b:netrw_cpf") |let netrw_cpf = b:netrw_cpf |endif
if exists("b:netrw_curdir") |let netrw_curdir = b:netrw_curdir |endif
if exists("b:netrw_explore_bufnr") |let netrw_explore_bufnr = b:netrw_explore_bufnr |endif
if exists("b:netrw_explore_indx") |let netrw_explore_indx = b:netrw_explore_indx |endif
if exists("b:netrw_explore_line") |let netrw_explore_line = b:netrw_explore_line |endif
if exists("b:netrw_explore_list") |let netrw_explore_list = b:netrw_explore_list |endif
if exists("b:netrw_explore_listlen")|let netrw_explore_listlen = b:netrw_explore_listlen|endif
if exists("b:netrw_explore_mtchcnt")|let netrw_explore_mtchcnt = b:netrw_explore_mtchcnt|endif
if exists("b:netrw_fname") |let netrw_fname = b:netrw_fname |endif
if exists("b:netrw_lastfile") |let netrw_lastfile = b:netrw_lastfile |endif
if exists("b:netrw_liststyle") |let netrw_liststyle = b:netrw_liststyle |endif
if exists("b:netrw_method") |let netrw_method = b:netrw_method |endif
if exists("b:netrw_option") |let netrw_option = b:netrw_option |endif
if exists("b:netrw_prvdir") |let netrw_prvdir = b:netrw_prvdir |endif

call s:NetrwOptionRestore("w:")
" call Decho("generate a buffer with keepjumps keepalt anew!")
keepjumps keepalt anew!
call s:NetrwOptionSave("w:")

" copy function-local-variables to buffer variable equivalents
if exists("netrw_bannercnt") |let b:netrw_bannercnt = netrw_bannercnt |endif
if exists("netrw_browser_active") |let b:netrw_browser_active = netrw_browser_active |endif
if exists("netrw_cpf") |let b:netrw_cpf = netrw_cpf |endif
if exists("netrw_curdir") |let b:netrw_curdir = netrw_curdir |endif

```

```

if exists("netrw_explore_bufnr") |let b:netrw_explore_bufnr = netrw_explore_bufnr |endif
if exists("netrw_explore_indx") |let b:netrw_explore_indx = netrw_explore_indx |endif
if exists("netrw_explore_line") |let b:netrw_explore_line = netrw_explore_line |endif
if exists("netrw_explore_list") |let b:netrw_explore_list = netrw_explore_list |endif
if exists("netrw_explore_listlen")|let b:netrw_explore_listlen = netrw_explore_listlen|endif
if exists("netrw_explore_mtchcnt")|let b:netrw_explore_mtchcnt = netrw_explore_mtchcnt|endif
if exists("netrw_fname")      |let b:netrw_fname      = netrw_fname      |endif
if exists("netrw_lastfile")  |let b:netrw_lastfile  = netrw_lastfile  |endif
if exists("netrw_liststyle") |let b:netrw_liststyle = netrw_liststyle |endif
if exists("netrw_method")    |let b:netrw_method    = netrw_method    |endif
if exists("netrw_option")    |let b:netrw_option    = netrw_option    |endif
if exists("netrw_prvdir")    |let b:netrw_prvdir    = netrw_prvdir    |endif

```

```

let b:netrw_curdir= a:curdir
if b:netrw_curdir =~ '/'$'
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
file NetrwTreeListing
nno <silent> <buffer> [ :silent call <SID>TreeListMove('')<cr>
nno <silent> <buffer> ] :silent call <SID>TreeListMove('')<cr>
else
exe "silent! keepalt file ".fnameescape(b:netrw_curdir)
endif
endif

```

```

" call Dret("s:NetrwEnew : buf#" .bufnr("%")."<" .bufname("%")."> expand(%)" .expand("%").">
expand(#)" .expand("#").">")
endfun

```

```

" -----
" s:NetrwSaveWordPosn: used to keep cursor on same word after refresh, {{{2
" changed sorting, etc. Also see s:NetrwRestoreWordPosn().
fun! s:NetrwSaveWordPosn()
" call Dfunc("NetrwSaveWordPosn()")
let s:netrw_saveword= '^'.fnameescape(getline('.')).'$'
" call Dret("NetrwSaveWordPosn : saveword<" .s:netrw_saveword.">")
endfun

```

```

" -----
" s:NetrwRestoreWordPosn: used to keep cursor on same word after refresh, {{{2
" changed sorting, etc. Also see s:NetrwSaveWordPosn().
fun! s:NetrwRestoreWordPosn()
" call Dfunc("NetrwRestoreWordPosn()")
silent! call search(s:netrw_saveword,'w')
" call Dret("NetrwRestoreWordPosn")
endfun

```

```

" -----
" s:RestoreBufVars: {{{2

```

```

fun! s:RestoreBufVars()
" call Dfunc("s:RestoreBufVars()")

if exists("s:netrw_curdir")    |let b:netrw_curdir    = s:netrw_curdir    |endif
if exists("s:netrw_lastfile") |let b:netrw_lastfile  = s:netrw_lastfile  |endif
if exists("s:netrw_method")   |let b:netrw_method   = s:netrw_method   |endif
if exists("s:netrw_fname")    |let b:netrw_fname    = s:netrw_fname    |endif
if exists("s:netrw_machine")  |let b:netrw_machine  = s:netrw_machine  |endif
if exists("s:netrw_browser_active")|let b:netrw_browser_active = s:netrw_browser_active|endif

" call Dret("s:RestoreBufVars")
endfun

" -----
" s:RemotePathAnalysis: {{{2
fun! s:RemotePathAnalysis(dirname)
" call Dfunc("s:RemotePathAnalysis()")

let dirpat = '^(\w\{-}\):/\(\w\+@\)\=([\^:#]\+)%\%([:#]\(\d\+\))\=^\(.*\)$'
let s:method = substitute(a:dirname,dirpat,'\1,')
let s:user   = substitute(a:dirname,dirpat,'\2,')
let s:machine = substitute(a:dirname,dirpat,'\3,')
let s:port   = substitute(a:dirname,dirpat,'\4,')
let s:path   = substitute(a:dirname,dirpat,'\5,')
let s:fname  = substitute(a:dirname,'^.*\ze,','')

" call Decho("set up s:method <".s:method.">")
" call Decho("set up s:user   <".s:user  .">")
" call Decho("set up s:machine<".s:machine.">")
" call Decho("set up s:port  <".s:port .">")
" call Decho("set up s:path  <".s:path .">")
" call Decho("set up s:fname <".s:fname.">")

" call Dret("s:RemotePathAnalysis")
endfun

" -----
" s:RemoteSystem: runs a command on a remote host using ssh {{{2
" Returns status
" Runs system() on
" [cd REMOTEDIRPATH;] a:cmd
" Note that it doesn't do shellescape(a:cmd)!
fun! s:RemoteSystem(cmd)
" call Dfunc("s:RemoteSystem(cmd<".a:cmd.">")")
if !executable(g:netrw_ssh_cmd)
call netrw#ErrorMsg(s:ERROR,"g:netrw_ssh_cmd<".g:netrw_ssh_cmd."> is not executable!",52)
elseif !exists("b:netrw_curdir")
call netrw#ErrorMsg(s:ERROR,"for some reason b:netrw_curdir doesn't exist!",53)

```

```

else
let cmd = s:MakeSshCmd(g:netrw_ssh_cmd." USEPORT HOSTNAME")
let remotedir= substitute(b:netrw_curdir,'^.*?/[^\|]+\^(.*)$',\1,")
if remotedir != ""
let cmd= cmd.' cd '.shellescape(remotedir).";"
else
let cmd= cmd.' '
endif
let cmd= cmd.a:cmd
" call Decho("call system(".cmd.")")
let ret= system(cmd)
endif
" call Dret("s:RemoteSystem ".ret)
return ret
endfun

" -----
" s:RestoreWinVars: (used by Explore() and NetrwSplit()) {{{2
fun! s:RestoreWinVars()
" call Dfunc("s:RestoreWinVars()")
if exists("s:bannercnt") |let w:netrw_bannercnt = s:bannercnt |unlet s:bannercnt |endif
if exists("s:col") |let w:netrw_col = s:col |unlet s:col |endif
if exists("s:curdir") |let w:netrw_curdir = s:curdir |unlet s:curdir |endif
if exists("s:explore_bufnr") |let w:netrw_explore_bufnr = s:explore_bufnr |unlet s:explore_bufnr |endif
if exists("s:explore_indx") |let w:netrw_explore_indx = s:explore_indx |unlet s:explore_indx |endif
if exists("s:explore_line") |let w:netrw_explore_line = s:explore_line |unlet s:explore_line |endif
if exists("s:explore_listlen")|let w:netrw_explore_listlen = s:explore_listlen|unlet s:explore_listlen|endif
if exists("s:explore_list") |let w:netrw_explore_list = s:explore_list |unlet s:explore_list |endif
if exists("s:explore_mtchcnt")|let w:netrw_explore_mtchcnt = s:explore_mtchcnt|unlet s:explore_mtchcnt|endif
if exists("s:fpl") |let w:netrw_fpl = s:fpl |unlet s:fpl |endif
if exists("s:hline") |let w:netrw_hline = s:hline |unlet s:hline |endif
if exists("s:line") |let w:netrw_line = s:line |unlet s:line |endif
if exists("s:liststyle") |let w:netrw_liststyle = s:liststyle |unlet s:liststyle |endif
if exists("s:method") |let w:netrw_method = s:method |unlet s:method |endif
if exists("s:prvdir") |let w:netrw_prvdir = s:prvdir |unlet s:prvdir |endif
if exists("s:treedict") |let w:netrw_treedict = s:treedict |unlet s:treedict |endif
if exists("s:treetop") |let w:netrw_treetop = s:treetop |unlet s:treetop |endif
if exists("s:winnr") |let w:netrw_winnr = s:winnr |unlet s:winnr |endif
" call Dret("s:RestoreWinVars")
endfun

" -----
" s:Rexplore: implements returning from a buffer to a netrw directory {{{2
"
" s:SetRexDir() sets up <2-leftmouse> maps (if g:netrw_retmap
" is true) and a command, :Rexplore, which call this function.
"
" s:nbcd_curpos_{bufnr('%')} is set up by s:NetrwBrowseChgDir()

```

```

fun! s:NetrwRexplore(islocal,dirname)
" call Dfunc("s:NetrwRexplore(islocal=".a:islocal." dirname<"a:dirname.">)")
if a:islocal
  call netrw#LocalBrowseCheck(a:dirname)
else
  call s:NetrwBrowse(0,a:dirname)
endif
if exists("s:nbcd_curpos_{bufnr('%')}")
  call netrw#NetrwRestorePosn(s:nbcd_curpos_{bufnr('%')})
  unlet s:nbcd_curpos_{bufnr('%')}
endif
" call Dret("s:NetrwRexplore")
endfun

" -----
" s:SaveBufVars: {{{2
fun! s:SaveBufVars()
" call Dfunc("s:SaveBufVars()")

if exists("b:netrw_curdir") |let s:netrw_curdir = b:netrw_curdir |endif
if exists("b:netrw_lastfile") |let s:netrw_lastfile = b:netrw_lastfile |endif
if exists("b:netrw_method") |let s:netrw_method = b:netrw_method |endif
if exists("b:netrw_fname") |let s:netrw_fname = b:netrw_fname |endif
if exists("b:netrw_machine") |let s:netrw_machine = b:netrw_machine |endif
if exists("b:netrw_browser_active")|let s:netrw_browser_active = b:netrw_browser_active|endif

" call Dret("s:SaveBufVars")
endfun

" -----
" s:SaveWinVars: (used by Explore() and NetrwSplit()) {{{2
fun! s:SaveWinVars()
" call Dfunc("s:SaveWinVars()")
if exists("w:netrw_bannercnt") |let s:bannercnt = w:netrw_bannercnt |endif
if exists("w:netrw_col") |let s:col = w:netrw_col |endif
if exists("w:netrw_curdir") |let s:curdir = w:netrw_curdir |endif
if exists("w:netrw_explore_bufnr") |let s:explore_bufnr = w:netrw_explore_bufnr |endif
if exists("w:netrw_explore_indx") |let s:explore_indx = w:netrw_explore_indx |endif
if exists("w:netrw_explore_line") |let s:explore_line = w:netrw_explore_line |endif
if exists("w:netrw_explore_listlen")|let s:explore_listlen = w:netrw_explore_listlen|endif
if exists("w:netrw_explore_list") |let s:explore_list = w:netrw_explore_list |endif
if exists("w:netrw_explore_mtchcnt")|let s:explore_mtchcnt = w:netrw_explore_mtchcnt|endif
if exists("w:netrw_fpl") |let s:fpl = w:netrw_fpl |endif
if exists("w:netrw_hline") |let s:hline = w:netrw_hline |endif
if exists("w:netrw_line") |let s:line = w:netrw_line |endif
if exists("w:netrw_liststyle") |let s:liststyle = w:netrw_liststyle |endif
if exists("w:netrw_method") |let s:method = w:netrw_method |endif
if exists("w:netrw_prvdir") |let s:prvdir = w:netrw_prvdir |endif

```

```

if exists("w:netrw_treedict") |let s:treedict = w:netrw_treedict |endif
if exists("w:netrw_treetop") |let s:treetop = w:netrw_treetop |endif
if exists("w:netrw_winnr") |let s:winnr = w:netrw_winnr |endif
" call Dret("s:SaveWinVars")
endfun

" -----
" s:SetBufWinVars: (used by NetrwBrowse() and LocalBrowseCheck()) {{{2
" To allow separate windows to have their own activities, such as
" Explore **/pattern, several variables have been made window-oriented.
" However, when the user splits a browser window (ex: ctrl-w s), these
" variables are not inherited by the new window. SetBufWinVars() and
" UseBufWinVars() get around that.
fun! s:SetBufWinVars()
" call Dfunc("s:SetBufWinVars()")
if exists("w:netrw_liststyle") |let b:netrw_liststyle = w:netrw_liststyle |endif
if exists("w:netrw_bannercnt") |let b:netrw_bannercnt = w:netrw_bannercnt |endif
if exists("w:netrw_method") |let b:netrw_method = w:netrw_method |endif
if exists("w:netrw_prvdir") |let b:netrw_prvdir = w:netrw_prvdir |endif
if exists("w:netrw_explore_idx") |let b:netrw_explore_idx = w:netrw_explore_idx |endif
if exists("w:netrw_explore_listlen")|let b:netrw_explore_listlen=w:netrw_explore_listlen|endif
if exists("w:netrw_explore_mtchcnt")|let b:netrw_explore_mtchcnt= w:netrw_explore_mtchcnt|endif
if exists("w:netrw_explore_bufnr") |let b:netrw_explore_bufnr = w:netrw_explore_bufnr |endif
if exists("w:netrw_explore_line") |let b:netrw_explore_line = w:netrw_explore_line |endif
if exists("w:netrw_explore_list") |let b:netrw_explore_list = w:netrw_explore_list |endif
" call Dret("s:SetBufWinVars")
endfun

" -----
" s:SetRexDir: set directory for :Rexplore {{{2
fun! s:SetRexDir(islocal,dirname)
" call Dfunc("s:SetRexDir(islocal=".a:islocal." dirname<".a:dirname.">")")
" set up Rex and leftmouse-double-click
if a:islocal
exe 'com! Rexplore call s:NetrwRexplore(1,".escape(a:dirname,"\\").")'
if g:netrw_retmap
if !hasmapto("<Plug>NetrwReturn") && maparg("<2-leftmouse>","n") == ""
nmap <unique> <silent> <2-leftmouse> <Plug>NetrwReturn
endif
let dir = escape(a:dirname, s:netrw_map_escape)
exe 'nnoremap <silent> <Plug>NetrwReturn :call <SID>NetrwRexplore(1,".dir.")<cr>'
endif
else
exe 'com! Rexplore call s:NetrwRexplore(0,".escape(a:dirname,"\\").")'
if g:netrw_retmap
if !hasmapto("<Plug>NetrwReturn") && maparg("<2-leftmouse>","n") == ""
nmap <unique> <silent> <2-leftmouse> <Plug>NetrwReturn
endif
endif

```

```

let dir = escape(a:dirname, s:netrw_map_escape)
exe 'nnoremap <silent> <Plug>NetrwReturn :call <SID>NetrwRexplore(0,"".dir.)<cr>'
endif
endif
" call Dret("s:SetRexDir")
endfun

" -----
" s:Strlen: this function returns the length of a string, even if its {{{2
"   using two-byte etc characters.
"   Currently, its only used if g:Align_xstrlen is set to a
"   nonzero value.  Solution from Nicolai Weibull, vim docs
"   (:help strlen()), Tony Mechelynck, and my own invention.
fun! s:Strlen(x)
" call Dfunc("s:Strlen(x<".a:x.">")
if g:netrw_xstrlen == 1
" number of codepoints (Latin a + combining circumflex is two codepoints)
" (comment from TM, solution from NW)
let ret= strlen(substitute(a:x,'!', 'c', 'g'))

elseif g:netrw_xstrlen == 2
" number of spacing codepoints (Latin a + combining circumflex is one spacing
" codepoint; a hard tab is one; wide and narrow CJK are one each; etc.)
" (comment from TM, solution from TM)
let ret=strlen(substitute(a:x, '\Z', 'x', 'g'))

elseif g:netrw_xstrlen == 3
" virtual length (counting, for instance, tabs as anything between 1 and
" 'tabstop', wide CJK as 2 rather than 1, Arabic alif as zero when immediately
" preceded by lam, one otherwise, etc.)
" (comment from TM, solution from me)
let modkeep= &mod
exe "norm! o\<esc>"
call setline(line("."),a:x)
let ret= virtcol("$") - 1
d
let &mod= modkeep

else
" at least give a decent default
ret= strlen(a:x)
endif
" call Dret("s:Strlen ".ret)
return ret
endfun

" -----
" s:TreeListMove: {{{2

```

```

fun! s:TreeListMove(dir)
" call Dfunc("s:TreeListMove(dir<"a:dir.">")
let curline = getline('.')
let prvline = (line(".") > 1)? getline(line(".")-1) : "
let nxtline = (line(".") < line("$"))? getline(line("")+1) : "
let curindent= substitute(curline,'^\([ ]*\)\{-}$','1',")
let indentm1 = substitute(curindent,'^| ','")
" call Decho("prvline <".prvline."> #".line(".")-1)
" call Decho("curline <".curline."> #".line("."))
" call Decho("nxtline <".nxtline."> #".line("")+1)
" call Decho("curindent<".curindent.">")
" call Decho("indentm1 <".indentm1.">")

if curline !~ '/'$
" call Decho('regfile')
if a:dir == '[' && prvline != "
norm! 0
let nl = search('^'.indentm1.'[^\]','bWe') " search backwards from regular file
" call Decho("regfile srch back: ".nl)
elseif a:dir == ']' && nxtline != "
norm! $
let nl = search('^'.indentm1.'[^\]','We') " search forwards from regular file
" call Decho("regfile srch fwd: ".nl)
endif

elseif a:dir == '[' && prvline != "
norm! 0
let curline= line(".")
let nl = search('^'.curindent.'[^\]','bWe') " search backwards From directory, same indentation
" call Decho("dir srch back ind: ".nl)
if nl != 0
if line(".") == curline-1
let nl= search('^'.indentm1.'[^\]','bWe') " search backwards from directory, indentation - 1
" call Decho("dir srch back ind-1: ".nl)
endif
endif

elseif a:dir == ']' && nxtline != "
norm! $
let curline = line(".")
let nl = search('^'.curindent.'[^\]','We') " search forwards from directory, same indentation
" call Decho("dir srch fwd ind: ".nl)
if nl != 0
if line(".") == curline+1
let nl= search('^'.indentm1.'[^\]','We') " search forwards from directory, indentation - 1
" call Decho("dir srch fwd ind-1: ".nl)
endif
endif
endif

```

```

endif

" call Dret("s:TreeListMove")
endfun

" -----
" s:UpdateBuffersMenu: does emenu Buffers.Refresh (but due to locale, the menu item may not be called that) {{{2
"     The Buffers.Refresh menu calls s:BMSHOW(); unfortunately, that means that that function
"     can't be called except via emenu. But due to locale, that menu line may not be called
"     Buffers.Refresh; hence, s:NetrwBMSHOW() utilizes a "cheat" to call that function anyway.
fun! s:UpdateBuffersMenu()
" call Dfunc("s:UpdateBuffersMenu()")
if has("gui") && has("menu") && has("gui_running") && &go =~ 'm'
try
    silent emenu Buffers.Refresh\ menu
catch /^Vim\%((\a+)\)=:E/
    let v:errmsg= ""
    silent call s:NetrwBMSHOW()
endtry
endif
" call Dret("s:UpdateBuffersMenu")
endfun

" -----
" s:UseBufWinVars: (used by NetrwBrowse() and LocalBrowseCheck() {{{2
"     Matching function to BufferWinVars()
fun! s:UseBufWinVars()
" call Dfunc("s:UseBufWinVars()")
if exists("b:netrw_liststyle")    && !exists("w:netrw_liststyle")    |let w:netrw_liststyle    = b:netrw_liststyle
|endif
if exists("b:netrw_bannercnt")    && !exists("w:netrw_bannercnt")    |let w:netrw_bannercnt    =
b:netrw_bannercnt    |endif
if exists("b:netrw_method")    && !exists("w:netrw_method")    |let w:netrw_method    =
b:netrw_method    |endif
if exists("b:netrw_prvdir")    && !exists("w:netrw_prvdir")    |let w:netrw_prvdir    = b:netrw_prvdir
|endif
if exists("b:netrw_explore_indx")    && !exists("w:netrw_explore_indx") |let w:netrw_explore_indx =
b:netrw_explore_indx |endif
if exists("b:netrw_explore_listlen") && !exists("w:netrw_explore_listlen")|let w:netrw_explore_listlen =
b:netrw_explore_listlen|endif
if exists("b:netrw_explore_mtchcnt") && !exists("w:netrw_explore_mtchcnt")|let w:netrw_explore_mtchcnt =
b:netrw_explore_mtchcnt|endif
if exists("b:netrw_explore_bufnr") && !exists("w:netrw_explore_bufnr") |let w:netrw_explore_bufnr =
b:netrw_explore_bufnr |endif
if exists("b:netrw_explore_line") && !exists("w:netrw_explore_line") |let w:netrw_explore_line =
b:netrw_explore_line |endif
if exists("b:netrw_explore_list") && !exists("w:netrw_explore_list") |let w:netrw_explore_list =

```

```

b:netrw_explore_list |endif
" call Dret("s:UseBufWinVars")
endfun

" -----
" s:WinPath: {{{2
fun! s:WinPath(path)
" call Dfunc("s:WinPath(path<"a:path.">")
if !g:netrw_cygwin && (has("win32") || has("win95") || has("win64") || has("win16"))
" remove trailing slash (Win95)
let path = substitute(a:path, '\\\\\/$', "", 'g')
" remove escaped spaces
let path = substitute(path, '\\', '\\', 'g')
" convert slashes to backslashes
let path = substitute(path, '/', '\\', 'g')
else
let path= a:path
endif
" call Dret("s:WinPath <"path.">")
return path
endfun

```

```

" -----
" Settings Restoration: {{{2
let &cpo= s:keepcpo
unlet s:keepcpo

```

```

" -----
" Modelines: {{{1
" vim:ts=8 fdm=marker
en_US
20040623 release.
--

```

This dictionary is based on a subset of the original English wordlist created by Kevin Atkinson for Pspell and Aspell and thus is covered by his original LGPL license. The affix file is a heavily modified version of the original english.aff file which was released as part of Geoff Kuenning's Ispell and as such is covered by his BSD license.

Thanks to both authors for there wonderful work.

=====

```

en_AU:
This dictionary was based on the en_GB Myspell dictionary
which in turn was initially based on a subset of the

```

original English wordlist created by Kevin Atkinson for Pspell and Aspell and thus is covered by his original LGPL licence.

The credit for this en_AU dictionary goes to:

Kelvin Eldridge (maintainer)
Jean Hollis Weber
David Wilson

- Words incorrect in Australian English removed
- a list from the previously removed words with corrected spelling was added
- a list of major rivers was added
- a list of place names was added
- a list of Australian mammals was added
- a list of Aboriginal/Koori words commonly used was added

A total of 119,267 words are now recognized by the dictionary.

Of course, special thanks go to the editors of the en_GB dictionary (David Bartlett, Brian Kelk and Andrew Brown) which provided the starting point for this dictionary.

The affix file is currently a duplicate of the en_AU.aff created completely from scratch by David Bartlett and Andrew Brown, based on the published rules for MySpell and is also provided under the LGPL.

If you find omissions or bugs or have new words to add to the dictionary, please contact the en_AU maintainer at:

"Kelvin" <audictionary@onlineconnections.com.au>

=====
en_CA:

The dictionary file was created using the "final" English and Canadian SCOWL (Spell Checker Oriented Word Lists) wordlists available at Kevin's Word Lists Page (<http://wordlist.sourceforge.net>). Lists with the suffixes 10, 20, 35, 50, 65 and 65 were used. Lists with the suffixes 70, 80 and 95 were excluded. Copyright information for SCOWL and the wordlists used in creating it is reproduced below.

The affix file is identical to the MySpell English (United States) affix file. It is a heavily modified version of the original english.aff file which was released as part of Geoff Kuenning's Ispell and as such is covered by his BSD license.

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

The MWords package was explicitly placed in the public domain:

The Moby lexicon project is complete and has been placed into the public domain. Use, sell, rework, excerpt and use in any way on any platform.

Placing this material on internal or public servers is also encouraged. The compiler is not aware of any export restrictions so freely distribute world-wide.

You can verify the public domain status by contacting

Grady Ward
3449 Martha Ct.
Arcata, CA 95521-4884

grady@netcom.com

grady@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English
> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

The 12Dicts package and Supplement is in the Public Domain.

The WordNet database, which was used in the creation of the Inflections database, is under the following copyright:

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The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files from the Census report is a government document which I don't think can be copyrighted.

The name list from Alan Beale is also derived from the linux words list, which is derived from the DEC list. He also added a bunch of miscellaneous names to the list, which he released to the Public Domain.

The DEC Word list doesn't have a formal name. It is labeled as "FILE: english.words; VERSION: DEC-SRC-92-04-05" and was put together by Jorge Stolfi <stolfi@src.dec.com> DEC Systems Research Center. The DEC Word list has the following copyright statement:

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To the best of my knowledge, all the files I used to build these wordlists were available for public distribution and use, at least for non-commercial purposes. I have confirmed this assumption with the authors of the lists, whenever they were known.

Therefore, it is safe to assume that the wordlists in this package

can also be freely copied, distributed, modified, and used for personal, educational, and research purposes. (Use of these files in commercial products may require written permission from DEC and/or the authors of the original lists.)

Whenever you distribute any of these wordlists, please distribute also the accompanying README file. If you distribute a modified copy of one of these wordlists, please include the original README file with a note explaining your modifications. Your users will surely appreciate that.

(NO-)WARRANTY DISCLAIMER

These files, like the original wordlists on which they are based, are still very incomplete, uneven, and inconsistent, and probably contain many errors. They are offered "as is" without any warranty of correctness or fitness for any particular purpose. Neither I nor my employer can be held responsible for any losses or damages that may result from their use.

However since this Word List is used in the linux.words package which the author claims is free of any copyright I assume it is OK to use for most purposes. If you want to use this in a commercial project and this concerns you the information from the DEC word list can easily be removed without much sacrifice in quality as only the name lists were used.

The file special-jargon.50 uses common.lst and word.lst from the "Unofficial Jargon File Word Lists" which is derived from "The Jargon File". All of which is in the Public Domain. This file also contains a few extra UNIX terms which are found in the file "unix-terms" in the special/ directory.

The 60 level includes Brian's frequency class 0 and all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package. A large number of names are also included: The 4,946 female names and 3,897 male names from the MWords package and the files "computer.names", "misc.names", and "org.names" from the DEC package.

The 65 level includes words found in the Ispell "medium" word list. The Ispell word lists are under the same copyright of Ispell itself which is:

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The 70 level includes the 74,550 common dictionary words and the 21,986 names list from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

The ENABLE package, mainted by M\Cooper <thegrendel@theriver.com>, is in the Public Domain:

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There are no other restrictions: I would like to see the list distributed as widely as possible.

The 95 level includes the 354,984 single words and 256,772 compound words from the MWords package, ABLE.LST from the ENABLE Supplement, and some additional words found in my part-of-speech database that were not found anywhere else.

Accent information was taken from UKACD.

My VARCON package was used to create the American, British, and Canadian word list.

Since the original word lists used used in the VARCON package came from the Ispell distribution they are under the Ispell copyright.

The variant word lists were created from a list of variants found in the 12dicts supplement package as well as a list of variants I created myself.

=====
en_GB:

This dictionary was initially based on a subset of the original English wordlist created by Kevin Atkinson for Pspell and Aspell and thus is covered by his original LGPL licence.

It has been extensively updated by David Bartlett, Brian Kelk and Andrew Brown:

- numerous Americanism have been removed
- numerous American spellings have been corrected
- missing words have been added
- many errors have been corrected
- compound hyphenated words have been added where appropriate

Valuable inputs to this process were received from many other people - far too numerous to name. Serious thanks to you all for your greatly appreciated help.

This word list is intended to be a good representation of current modern British English and thus it should be a good basis for Commonwealth English in most countries of the world outside North America.

The affix file has been created completely from scratch by David Bartlett and Andrew Brown, based on the published rules for MySpell and is also provided under the LGPL.

In creating the affix rules an attempt has been made to reproduce the most general rules for English word formation, rather than merely use it as a means to compress the size of the dictionary. It is hoped that this will facilitate future localisation to other variants of English.

Please let David Bartlett <dwb@openoffice.org> know of any errors that you find.

The current release is R 1.18, 11/04/05
=====

en_NZ:

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 - II. Copying (Licence)
-

I. Copyright

NZ English Dictionary v0.9 beta - Build 06SEP03

~~~~~  
NB This is an initial version, please check:  
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or  
<http://www.girlza.com/dictionary/download.html>  
for a final version, after a little while (no hurry).

This dictionary is based on the en\_GB Myspell dictionary which in turn was initially based on a subset of the original English wordlist created by Kevin Atkinson for Pspell and Aspell and thus is covered by his original LGPL licence.

#### Introduction

~~~~~  
en_NZ.dic has been altered to include New Zealand places, including major cities and towns, and major suburbs. It also contains NZ words, organisations and expressions.

en_NZ.aff has had a few REPlace strings added, but is basically unchanged.

Acknowledgements

~~~~~  
Thanks must go to the original creators of the British dictionary, David Bartlett, Brian Kelk and Andrew Brown.

I wouldn't have started this without seeing the Australian dictionary, thanks Kelvin Eldridge, Jean Hollis Weber and David Wilson.

And thank you to all who've contributed to OpenOffice.org.

#### License

~~~~~  
This dictionary is covered by the GNU Lesser General Public License, viewable at <http://www.gnu.org/copyleft/lesser.html>

Issues

~~~~~  
Many of the proper nouns already in the dictionary do not have an affix for 's.  
All my new words start after the z's of the original dictionary.

Contact

~~~~~

Contact Tristan Burtenshaw (hooty@slingshot.co.nz) with any words, places or other suggestions for the dictionary.

II. Copying

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Version 2.1, February 1999

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uganda.txt For Vim version 7.2. Last change: 2008 Jun 21

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*

SUMMARY

iccf *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc|

below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

VIM LICENSE

D) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:

- a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

- b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

- c) Provide all the changes, including source code, with every copy of

the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

=====

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older

sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre is co-sponsored and inspected by World Vision, Save the Children Fund and International Child Care Fund. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself in 1996, 1998, 2000, 2001 and 2003. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada

Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Venlo.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift

code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL47 PSTB 0004 5487 74

under the name "stichting ICCF Holland", Venlo

If that doesn't work:

Rabobank Venlo, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Venlo

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

stichting ICCF Holland

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

=====

Visual Studio - Vim Integration

=====

Copyright (C) 1997 Heiko Erhardt

VisVim is a Visual Studio Add-In that allows Vim to be integrated as the default text editor. It will be used instead of the Visual Studio built-in editor when you double-click on a file or press F4 after compiling (it will go to the proper line in the Vim buffer).

The file can be loaded exclusively by Vim or additionally to the builtin Visual Studio editor (this option can be set in the VisVim

configuration dialog inside Visual Studio).

Vim does not replace the Visual Studio editor, it still runs in its own window.

VisVim is based upon VisEmacs by Christopher Payne
(Copyright (C) Christopher Payne 1997).

Author: Heiko Erhardt <Heiko.Erhardt@munich.netsurf.de>

Based upon: VisEmacs by Christopher Payne <payneca@sagian.com>

Version: 1.0

Created: 23 Oct 1997

Date: 23 Oct 1997

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Requirements

VisVim works with the *OLE-enabled* version of Vim version 5.0 and higher only!!! You must download the extra archive containing the OLE-enabled executable from your Vim download site. When building your own Vim executable, use the if_ole_vc.mak makefile (Vim 5.1 and higher).

VisVim needs DevStudio 5.0 or higher. It does not work with DevStudio 4.2.

Installation

- 1) Close running instances of DevStudio.
- 2) Copy VisVim.dll into a convenient directory like \vim, \vim\lib, or \vim\addin
- 3) Register the DLL using regsvr32.exe ... (Skip this on Windows 95/98)
Example:
> cd \vim\addin
> regsvr32 VisVim.dll
On NT, you should do this from an administrator account.
Before installing a new version of VisVim you should unregister

the old one using

```
> regsvr32 -unregister VisVim.dll
```

The batch files register.bat and unregister.bat can do that for you.

3a) If you didn't do this yet: Register the OLE gvim:

```
> gvim -register
```

4) Start Visual Studio and go to:

Tools

Customize...

Add-Ins and Macro Files

5) Click on Browse, and point Visual Studio to your VisVim.dll file.

6) Click the checkbox to indicate that you want to use the Add-In, and Close the Customize dialog box.

7) You should notice the VisVim Toolbar with the Vim Icon.

Click the first item of the toolbar to get to the options dialog.

Compiling VisVim

Two Options:

1) Load the VisVim.mak file as a Workspace in Visual Studio and compile

2) Use the MSVC command line compiler:

```
vcvars32
```

```
nmake -f VisVim.mak
```

Using VisVim

The VisVim DLL exposes several functions to the user. These functions are accessible using the toolbar or by assigning hotkeys to them (see below).

The following functions are visible on the toolbar (from left to right):

1. VisVim settings dialog

The settings you adjust here will be saved in the registry and will be reloaded on program startup.

2. Enable Vim

Enables Vim as Visual Studio editor. Control will be switched to Vim when:

- Clicking a file in the file view

- Clicking a compiler error message line

- Using the 'File-Open' Dialog
- Showing the current source line when encountering a debugger breakpoint.
- Using File-New

3. Disable Vim

The internal Visual Studio editor will be used to edit files.

4. Toggle enable state

Toggles the enable state of VisVim. Use this function if you want to have one button only to activate/deactivate Vim.

5. Load current file in Vim

Loads the file shown in the internal editor into Vim. Use this function if you want the internal editor to stay active and just edit one file in Vim.

This command works always whether Vim is enabled as default editor or not.

You cannot use DevStudio's debugger commands from inside Vim, so you should disable Vim before running the debugger.

You can customize the Vim toolbar itself or add the Vim buttons to other toolbars.

To have fast access to the VisVim options dialog I suggest to create keyboard shortcuts:

1) Choose

Tools

Customize...

Keyboard

2) Choose Category: AddIns and Commands: VisVim.

3) Choose 'Main' as editor, enter each hotkey and press the Assign button.

I suggest:

VisVimDialogCmd Alt+Shift+V

VisVimEnableCmd Alt+Shift+E

VisVimDisableCmd Alt+Shift+D

VisVimToggleCmd Alt+Shift+T

VisVimLoadCmd Alt+Shift+G

4) Close the dialog

Now a typical debugging example:

Using "Alt+Shift+d" you turn off Vim before starting the debugger.

After hitting the breakpoint you single step through your application using the internal source code editor and examine variables.

When you stumble across the line with the null pointer assignment, just press "Alt+Shift+g", and correct the error in Vim.

Save the file, press Alt+Tab to return to DevStudio and press F7 to compile.

That's it.

Troubleshooting

1. When opening a file in DevStudio the file is opened in the DevStudio editor and immediately vanishes. No Vim shows up.
Cause: Probably you don't have the OLE-enabled Vim or you didn't register it.
Explanation: VisVim is notified by DevStudio if an 'open document' event occurs. It then closes the document in the internal editor and tries to start Vim. If Vim isn't properly OLE-registered, this won't work.
Workaround: Download and install the OLE-enabled version of Vim and execute "gvim -register".
2. Sometimes when clicking on a file, the file won't be opened by Vim but instead the Visual Studio editor comes up.
Cause: The file was already loaded by the DevStudio editor.
Explanation: VisVim works by hooks exposed by Visual Studio. Most of the functionality works from the OpenDocument hook. If a document is already loaded in the Visual Studio editor, no 'open document' event will be generated when clicking the file in the file list.
Workaround: Close the document in Visual Studio first.
3. I can't get VisVim to work. Either the Vim toolbar does not appear at all or weird crashes happen.
Cause: The Visual Studio installation is messed up.
Explanation: I can't give you one. Ask M\$.
Workaround: Reinstall DevStudio (I know this is brute, but in some cases it helped). There was one case where the service pack 1 had to be installed, too.
4. If an instance of Vim is already running, VisVim will use that instance and not start a new one.
Cause: This is proper OLE behaviour
Explanation: Some call it a bug, some a feature. That's just the way OLE works.
5. When being in insert mode in Vim and selecting a file in Visual Studio, the Vim command :e ... is inserted as text instead of being executed.
Cause: You probably know...
Explanation: The Vim OLE automation interface interprets the VisVim commands as if they were typed in by the user.
So if you're in insert mode Vim considers it to be text.
I decided against sending an ESC before the command because it may cause a beep or at least a screen flash when noeb is set.

Workaround: Get used to press ESC before switching to DevStudio.

6. I'm tired of VisVim but I can't get rid of it. I can't delete it in Tools-Customize-Add-Ins.

Cause: You can't delete an item you once added to the add-ins list box.

Explanation: M\$ just didn't put a 'delete' button in the dialog box.

Unfortunately there is no DEL key accelerator as well...

Workaround: You can't kill it, but you can knock it out:

1. Uncheck the check box in front of 'Vim Developer Studio Add-in'.
2. Close Visual Studio.
3. Delete VisVim.dll or move it somewhere it can't be found.
4. Run Visual Studio.
5. Tools -> Cursomize ->Add-ins and Macro-Files.
6. A message appears:
"../VisVim.dll" "This add-in no longer exists. It will no longer be displayed."
That's it!

Change history

1.0a to 1.0

- All settings in the VisVim dialog are remembered between DevStudio sessions by keeping them in the registry (HKEY_CURRENT_USER\Software\Vim\VisVim).
- Added an option to do a :cd before opening the file (having a file opened by clicking it but finding out to be still in C:\Windows\system when trying to open another file by ":e" can be annoying). Change directory can be done to the source file's directory or it's parent directory.
- Added some explanations to the error message for the CO_E_CLASSSTRING error ("Use OLE Vim and make sure to register...").

1.0 to 1.1a

- The VisVim toolbar button now shows the new Vim icon instead of the old one.
- Made some changes to the documentation, added the troubleshooting chapter and ToDo list.
- File-New-* now invokes Vim instead of the builtin editor if enabled.

1.1 to 1.1b

- Extended the VisVim toolbar to have multiple buttons instead of one.

- Moved the enable/disable commands from the settings dialog to the toolbar.
- Added the toggle enable/disable command
- Added the 'load current file' command.

1.1b to 1.2

No new features, just some fine tuning:

- Changed the GUID of the VisVim OLE interface to avoid conflicts with a version of VisEmacs or VisVile on the same computer (Guy Gascoigne)
- Fixed a bug caused by a bug in the Developer Studio add-in code generator (Clark Morgan)
- Fixed a memory leak (Clark Morgan)
- Added an option in the VisVim dialog to prepend ESC before the first command that is sent to Vim. This will avoid inserting the command as text when Vim is still in insert mode.
- An :update command is sent to Vim before any other command to update the current file if it is modified, or else the following :cd or :e command will fail.

1.2 to 1.3a

- Fixed a bug caused by a missing EnableModeless() function call in VimLoad(). This seems to reduce VisVim crashing DevStudio on some systems (it occasionally still seems to happen, but it's more stable now). (Vince Negri)
- Added support for the new CTRL-\ CTRL-N command of Vim 5.4a. This prevents Vim from beeping when a VisVim command is executed an Vim is not in insert mode.

ToDo List

P1 is highest priority, P10 lowest

P9 Switching to DevStudio using ALT-TAB may get annoying. Would be nice to have the option to map ActivateApplication("Visual Studio") in Vim. Vim DLLs would solve that problem.

P8 Execute :tag command in Vim for word under cursor in DevStudio

P7 Controlling the Visual Studio Debugger from inside Vim
See message above. Also a 'Debug' highlight group and a command to highlight a certain line would be necessary.

P6 Provide an option to open the current file in VisVim in

Visual Studio editor

Same as above message. A kind of two way OLE automation would have to be established between VisVim and Vim. Also a 'Debug' highlight group and a command to highlight a certain line would be necessary.

Known Problems

- Occasional memory corruptions in DevStudio may appear on some systems. Reinstalling DevStudio helped in some cases. The cause of these crashes is unclear; there is no way to debug this. Recompiling VisVim with DevStudio SP3 didn't help. I assume it's a problem deep inside the DevStudio add-in OLE interfaces. This will hopefully be fixed with DevStudio 6.

Have fun!

Heiko Erhardt
Heiko.Erhardt@munich.netsurf.de

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1.12 gpt-fdisk 0.8.6

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```

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1.13 free-type 2.10.4

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#

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#

.gitignore

#

builds/unix/pkg.m4

#

```
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
```

```
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
```

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```

```
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1.14 tigervnc 1.11.0

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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school, if any, to sign a "copyright disclaimer" for the program, if
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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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1.15 icu 36

1.15.1 Available under license :

ICU License - ICU 1.8.1 and later

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-makefile-

BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)

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Commands to generate dependency files

GEN_DEPS.c= \$(CC) -E -MM \$(DEFS) \$(CPPFLAGS)

GEN_DEPS.cc= \$(CXX) -E -MM \$(DEFS) \$(CPPFLAGS)

Flags for position independent code

SHAREDLIBCFLAGS = -fPIC

SHAREDLIBCXXFLAGS = -fPIC

SHAREDLIBCPPFLAGS = -DPIC

Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT

LIBCPPFLAGS =

```

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## End FreeBSD-specific setup

```

1.16 pcre 7.8 6.el6

1.16.1 Available under license :

PCRE LICENCE

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End

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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THE C++ WRAPPER FUNCTIONS

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1.17 sqlite 3.7.10

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1.18 open-iscsi 2.1.3

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1.19 ncurses 5.9

1.19.1 Available under license :

Upstream source <http://invisible-island.net/ncurses/ncurses-examples.html>

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Files: install-sh

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1.20 libart 2.3.20-5.1.el6

1.20.1 Available under license :

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1.25 wget 1.21.1-r1

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1.26 bluez 5.55

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1.28 dtc 1.3.0

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(33) - Daniel Eischen (targets using libc/posix)

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(34) - Jon Beniston (only lm32-* targets)

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(35) - ARM Ltd (arm and thumb variant targets only)

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Version 3, 29 June 2007

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@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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@appendixsubsec Preamble

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We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center END OF TERMS AND CONDITIONS

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end smallexample

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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Version 2.1, February 1999

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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That's all there is to it!
(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added

support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

1.36 patch 2.6 6.el6

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Version 3, 29 June 2007

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1.39 polkit 0.118

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1.42 rpm 4.8.0-32.el6

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1.43 upstart 0.6.5-12.el6_4.1

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@c ispell-local-pdict: "ispell-dict"
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1.47 perl 5.14.2

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: 1.4
name: Module-Build
resources:
MailingList: <mailto:module-build@perl.org>
license: <http://dev.perl.org/licenses/>
repository: <http://github.com/dagolden/module-build/>
version: 3

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```

```
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```

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match

reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

```
=cut
```

```
use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', './README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/= "";
    my $copyright_msg = <$readme>;
```

```

my ($year) = $copyright_msg =~ /\.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}

```

1.48 dracut 004-303.el6

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1.49 sysv-init 2.88

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

- * A rewrite of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.50 libice 1.0.6 1.e16

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1.51 sysklogd 3.5.6

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on Sat, 03 Mar 2007 16:07:59 +0100

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====

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1.54 libpcap 1.7.4

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1.55 iputils 20200821

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1.56 gmp 4.3.1 7.el6_2.2

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GNU MP is a library for arbitrary precision arithmetic, operating on signed integers, rational numbers, and floating point numbers. It has a rich set of functions, and the functions have a regular interface.

GNU MP is designed to be as fast as possible, both for small operands and huge operands. The speed is achieved by using fullwords as the basic arithmetic type, by using fast algorithms, with carefully optimized assembly code for the most common inner loops for lots of CPUs, and by a general emphasis on speed

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OVERVIEW OF GNU MP

There are five classes of functions in GNU MP.

1. Signed integer arithmetic functions (mpz). These functions are intended to be easy to use, with their regular interface. The associated type is 'mpz_t'.
2. Rational arithmetic functions (mpq). For now, just a small set of functions necessary for basic rational arithmetics. The associated type is 'mpq_t'.
3. Floating-point arithmetic functions (mpf). If the C type 'double' doesn't give enough precision for your application, declare your variables as 'mpf_t' instead, set the precision to any number desired, and call the functions in the mpf class for the arithmetic operations.
4. Positive-integer, hard-to-use, very low overhead functions are in the mpn class. No memory management is performed. The caller must ensure enough space is available for the results. The set of functions is not regular, nor is the calling interface. These functions accept input arguments in the form of pairs consisting of a pointer to the least significant word, and an integral size telling how many limbs (= words) the pointer points to.

Almost all calculations, in the entire package, are made by calling these low-level functions.

5. Berkeley MP compatible functions.

To use these functions, include the file "mp.h". You can test if you are using the GNU version by testing if the symbol `__GNU_MP__` is defined.

For more information on how to use GNU MP, please refer to the documentation. It is composed from the file `doc/gmp.texi`, and can be displayed on the screen or printed. How to do that, as well how to build the library, is described in

the INSTALL file in this directory.

REPORTING BUGS

If you find a bug in the library, please make sure to tell us about it!

You should first check the GNU MP web pages at <http://gmplib.org/>, under "Status of the current release". There will be patches for all known serious bugs there.

Report bugs to gmp-bugs@gmplib.org. What information is needed in a useful bug report is described in the manual. The same address can be used for suggesting modifications and enhancements.

Local variables:
mode: text
fill-column: 78
End:

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Version 3, 29 June 2007

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1.58 lua 5.1.3

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```
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```
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```

```
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```
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.62 tss2 886-4.1

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1.63 findutils 4.8.0-r0

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1.65 patch 2.6.1

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1.68 log-rotate 3.8.1

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1.69 libogg 1.1.4 2.1.e16

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to

permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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That's all there is to it!

1.71 libasyncns 0.8

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1.75 zlib 1.2.3

1.75.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.1.4, March 11th, 2002
```

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

```
*/  
/* match.s -- Pentium-optimized version of longest_match()  
* Written for zlib 1.1.2  
* Copyright (C) 1998 Brian Raiter <breadbox@muppetlabs.com>  
*  
* This is free software; you can redistribute it and/or modify it  
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*/
```

1.76 cyrus-sasl 2.1.23

1.76.1 Available under license :

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Version 1.1 - April 19,1999

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/* CMU libsasl

* Tim Martin

* Rob Earhart

* Rob Siemborski

*/

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

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1.79 screen 4.8.0-1

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1.81 apr-util 1.5.2

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```
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1.82 libusb-compat 0.1.12-23.el6

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1.83 open-ldap 2.4.23-32.el6_4.1

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1.84 polycoreutils 2.0.83-19.30.el6

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired and contributed to many of the changes for version 3.0.0. He also provided the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

Further thanks go to:

- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information,
reported bugs, provided feedback, or works on including BeeCrypt in any
other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll rectify the situation as quickly as possible.

1.86 mtr 0.75 5.e16

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1.87 glib 2.66.5

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Version 2.1, February 1999

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1.88 bc 1.06

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```
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/*
```

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*****/

```
#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h> /* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_;
bc_num _one_;
bc_num _two_;

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)
    int length, scale;
{
```

```

bc_num temp;

if (_bc_Free_list != NULL) {
    temp = _bc_Free_list;
    _bc_Free_list = temp->n_next;
} else {
    temp = (bc_num) malloc (sizeof(bc_struct));
    if (temp == NULL) bc_out_of_memory ();
}
temp->n_sign = PLUS;
temp->n_len = length;
temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = (char *) malloc (length+scale);
if (temp->n_ptr == NULL) bc_out_of_memory();
temp->n_value = temp->n_ptr;
memset (temp->n_ptr, 0, length+scale);
return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only
frees the storage if reference count is zero. */

void
bc_free_num (num)
    bc_num *num;
{
    if (*num == NULL) return;
    (*num)->n_refs--;
    if ((*num)->n_refs == 0) {
        if ((*num)->n_ptr)
            free ((*num)->n_ptr);
        (*num)->n_next = _bc_Free_list;
        _bc_Free_list = *num;
    }
    *num = NULL;
}

/* Initialize the number package! */

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_ = bc_new_num (1,0);
    _one_->n_value[0] = 1;
    _two_ = bc_new_num (1,0);

```

```
_two->n_value[0] = 2;
}
```

```
/* Make a copy of a number! Just increments the reference count! */
```

```
bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
    return num;
}
```

```
/* Initialize a number NUM by making it a copy of zero. */
```

```
void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}
```

```
/* For many things, we may have leading zeros in a number NUM.
   _bc_rm_leading_zeros just moves the data "value" pointer to the
   correct place and adjusts the length. */
```

```
static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
    /* We can move n_value to point to the first non zero digit! */
    while (*num->n_value == 0 && num->n_len > 1) {
        num->n_value++;
        num->n_len--;
    }
}
```

```
/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
   than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
   compare the magnitudes. */
```

```
static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
```

```

    int ignore_last;
{
char *n1ptr, *n2ptr;
int count;

/* First, compare signs. */
if (use_sign && n1->n_sign != n2->n_sign)
{
    if (n1->n_sign == PLUS)
return (1); /* Positive N1 > Negative N2 */
    else
return (-1); /* Negative N1 < Positive N1 */
}

/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
{
    if (n1->n_len > n2->n_len)
{
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
{
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)

```

```

return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale - n2->n_scale; count > 0; count--)
            if (*n1ptr++ != 0)
            {
                /* Magnitude of n1 > n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (1);
                else
                    return (-1);
            }
    }
    else
    {
        for (count = n2->n_scale - n1->n_scale; count > 0; count--)
            if (*n2ptr++ != 0)
            {
                /* Magnitude of n1 < n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (-1);
                else
                    return (1);
            }
    }
}

```

```

    }

    /* They must be equal! */
    return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
    int count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;

    /* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0)
        return FALSE;
    else
        return TRUE;
}

```

```

}

/* In some places we need to check if the number NUM is almost zero.
Specifically, all but the last digit is 0 and the last digit is 1.
Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
    char *nptr;

    /* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

    /* Initialize */
    count = num->n_len + scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0 && (count != 1 || *--nptr != 1))
        return FALSE;
    else
        return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is
returned. The signs of N1 and N2 are ignored.
SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */

```

```

sum_scale = MAX (n1->n_scale, n2->n_scale);
sum_digits = MAX (n1->n_len, n2->n_len) + 1;
sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > sum_scale)
{
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
    for (count = scale_min - sum_scale; count > 0; count--)
*sumptr++ = 0;
}

/* Start with the fraction part. Initialize the pointers. */
n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part. First copy the longer fraction.*/
if (n1bytes != n2bytes)
{
    if (n1bytes > n2bytes)
while (n1bytes > n2bytes)
    { *sumptr-- = *n1ptr--; n1bytes--;}
    else
while (n2bytes > n1bytes)
    { *sumptr-- = *n2ptr--; n2bytes--;}
}

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
{
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
}

```

```

/* Now add carry the longer integer part. */
if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
    {
        *sumptr = *n1ptr-- + carry;
        if (*sumptr > (BASE-1))
        {
            carry = 1;
            *sumptr -= BASE;
        }
        else
            carry = 0;
        sumptr--;
    }

/* Set final carry. */
if (carry == 1)
    *sumptr += 1;

/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;
}

/* Perform subtraction: N2 is subtracted from N1 and the value is
returned. The signs of N1 and N2 are ignored. Also, N1 is
assumed to be larger than N2. SCALE_MIN is the minimum scale
of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
    int min_scale, min_len;
    char *n1ptr, *n2ptr, *diffptr;
    int borrow, count, val;

/* Allocate temporary storage. */
diff_len = MAX (n1->n_len, n2->n_len);
diff_scale = MAX (n1->n_scale, n2->n_scale);
min_len = MIN (n1->n_len, n2->n_len);
min_scale = MIN (n1->n_scale, n2->n_scale);

```

```

diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
{
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
*diffptr++ = 0;
}

/* Initialize the subtract. */
n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale - 1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale - 1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
*diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
{
        val = - *n2ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)

```

```

    {
        val += BASE;
        borrow = 1;
    }
    else
borrow = 0;
    *diffptr-- = val;
}

/* If n1 has more digits than n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    {
        val = *n1ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;
}

/* Here is the full subtract routine that takes care of negative numbers.
N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign != n2->n_sign)
    {
        diff = _bc_do_add (n1, n2, scale_min);
    }
}

```

```

    diff->n_sign = n1->n_sign;
}
else
{
    /* subtraction must be done. */
    /* Compare magnitudes. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
    switch (cmp_res)
    {
case -1:
    /* n1 is less than n2, subtract n1 from n2. */
    diff = _bc_do_sub (n2, n1, scale_min);
    diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
    break;
case 0:
    /* They are equal! return zero! */
    res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
    diff = bc_new_num (1, res_scale);
    memset (diff->n_value, 0, res_scale+1);
    break;
case 1:
    /* n2 is less than n1, subtract n2 from n1. */
    diff = _bc_do_sub (n1, n2, scale_min);
    diff->n_sign = n1->n_sign;
    break;
    }
}

/* Clean up and return. */
bc_free_num (result);
*result = diff;
}

/* Here is the full add routine that takes care of negative numbers.
N1 is added to N2 and the result placed into RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign == n2->n_sign)

```

```

{
    sum = _bc_do_add (n1, n2, scale_min);
    sum->n_sign = n1->n_sign;
}
else
{
    /* subtraction must be done. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
    switch (cmp_res)
    {
case -1:
    /* n1 is less than n2, subtract n1 from n2. */
    sum = _bc_do_sub (n2, n1, scale_min);
    sum->n_sign = n2->n_sign;
    break;
case 0:
    /* They are equal! return zero with the correct scale! */
    res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
    sum = bc_new_num (1, res_scale);
    memset (sum->n_value, 0, res_scale+1);
    break;
case 1:
    /* n2 is less than n1, subtract n2 from n1. */
    sum = _bc_do_sub (n1, n2, scale_min);
    sum->n_sign = n1->n_sign;
    }
    }

/* Clean up and return. */
bc_free_num (result);
*result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#ifdef(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;

```

```

    char *value;
{
bc_num temp;

if (_bc_Free_list != NULL) {
    temp = _bc_Free_list;
    _bc_Free_list = temp->n_next;
} else {
    temp = (bc_num) malloc (sizeof(bc_struct));
    if (temp == NULL) bc_out_of_memory ();
}
temp->n_sign = PLUS;
temp->n_len = length;
temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = NULL;
temp->n_value = value;
return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
             int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end; /* To the end of n1 and n2. */
    int indx, sum, prodlen;

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);
    pvptr = (char *) ((*prod)->n_value + prodlen - 1);
    sum = 0;

    /* Here is the loop... */
    for (indx = 0; indx < prodlen-1; indx++)
    {
        n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
        n2ptr = (char *) (n2end - MIN(indx, n2len-1));
        while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
            sum += *n1ptr-- * *n2ptr++;
        *pvptr-- = sum % BASE;
        sum = sum / BASE;
    }
    *pvptr = sum;
}

```

```

}

/* A special adder/subtractor for the recursive divide and conquer
multiply algorithm. Note: if sub is called, accum must
be larger than what is being subtracted. Also, accum and val
must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
    signed char *accp, *valp;
    int count, carry;

    count = val->n_len;
    if (val->n_value[0] == 0)
        count--;
    assert (accum->n_len+accum->n_scale >= shift+count);

    /* Set up pointers and others */
    accp = (signed char *) (accum->n_value +
        accum->n_len + accum->n_scale - shift - 1);
    valp = (signed char *) (val->n_value + val->n_len - 1);
    carry = 0;

    if (sub) {
        /* Subtraction, carry is really borrow. */
        while (count--) {
            *accp -= *valp-- + carry;
            if (*accp < 0) {
                carry = 1;
                *accp-- += BASE;
            } else {
                carry = 0;
            }
            accp--;
        }
        while (carry) {
            *accp -= carry;
            if (*accp < 0)
                *accp-- += BASE;
            else
                carry = 0;
        }
    } else {
        /* Addition */
        while (count--) {
            *accp += *valp-- + carry;
            if (*accp > (BASE-1)) {

```

```

carry = 1;
    *accp-- -= BASE;
    } else {
carry = 0;
accp--;
    }
    }
while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
*accp-- -= BASE;
    else
carry = 0;
    }
    }
}

/* Recursive divide and conquer multiply algorithm.
Based on
Let u = u0 + u1*(b^n)
Let v = v0 + v1*(b^n)
Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0

B is the base of storage, number of digits in u1,u0 close to equal.
*/
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
    int full_scale)
{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;
    bc_num m1, m2, m3, d1, d2;
    int n, prodlen, m1zero;
    int d1len, d2len;

    /* Base case? */
    if ((ulen+vlen) < mul_base_digits
        || ulen < MUL_SMALL_DIGITS
        || vlen < MUL_SMALL_DIGITS ) {
        _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
        return;
    }

    /* Calculate n -- the u and v split point in digits. */
    n = (MAX(ulen, vlen)+1) / 2;

    /* Split u and v. */
    if (ulen < n) {

```

```

    u1 = bc_copy_num (_zero_);
    u0 = new_sub_num (ulen,0, u->n_value);
} else {
    u1 = new_sub_num (ulen-n, 0, u->n_value);
    u0 = new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
    v1 = bc_copy_num (_zero_);
    v0 = new_sub_num (vlen,0, v->n_value);
} else {
    v1 = new_sub_num (vlen-n, 0, v->n_value);
    v0 = new_sub_num (n, 0, v->n_value+vlen-n);
}
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

```

```

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
_bc_shift_addsub (*prod, m3, n, 0);
_bc_shift_addsub (*prod, m3, 0, 0);
_bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine. N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
*/

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

    /* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
    len2 = n2->n_len + n2->n_scale;
    full_scale = n1->n_scale + n2->n_scale;
    prod_scale = MIN(full_scale, MAX(scale, MAX(n1->n_scale, n2->n_scale)));

    /* Do the multiply */
    _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

    /* Assign to prod and clean up the number. */
    pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );

```

```

pval->n_value = pval->n_ptr;
pval->n_len = len2 + len1 + 1 - full_scale;
pval->n_scale = prod_scale;
_bc_rm_leading_zeros (pval);
if (bc_is_zero (pval))
    pval->n_sign = PLUS;
bc_free_num (prod);
*prod = pval;
}

```

/* Some utility routines for the divide: First a one digit multiply.
NUM (with SIZE digits) is multiplied by DIGIT and the result is
placed into RESULT. It is written so that NUM and RESULT can be
the same pointers. */

```

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
        {
            if (digit == 1)
                memcpy (result, num, size);
            else
                {
                    /* Initialize */
                    nptr = (unsigned char *) (num+size-1);
                    rptr = (unsigned char *) (result+size-1);
                    carry = 0;

                    while (size-- > 0)
                        {
                            value = *nptr-- * digit + carry;
                            *rptr-- = value % BASE;
                            carry = value / BASE;
                        }

                    if (carry != 0) *rptr = carry;
                }
        }
}

```

```

/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
    unsigned char *num1, *num2;
    unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
    int scale1, val;
    unsigned int len1, len2, scale2, qdigits, extra, count;
    unsigned int qdig, qguess, borrow, carry;
    unsigned char *mval;
    char zero;
    unsigned int norm;

    /* Test for divide by zero. */
    if (bc_is_zero (n2)) return -1;

    /* Test for divide by 1. If it is we must truncate. */
    if (n2->n_scale == 0)
    {
        if (n2->n_len == 1 && *n2->n_value == 1)
        {
            qval = bc_new_num (n1->n_len, scale);
            qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
            memset (&qval->n_value[n1->n_len], 0, scale);
            memcpy (qval->n_value, n1->n_value,
                n1->n_len + MIN(n1->n_scale, scale));
            bc_free_num (quot);
            *quot = qval;
        }
    }

    /* Set up the divide. Move the decimal point on n1 by n2's scale.
    Remember, zeros on the end of num2 are wasted effort for dividing. */
    scale2 = n2->n_scale;
    n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
    while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

    len1 = n1->n_len + scale2;
    scale1 = n1->n_scale - scale2;

```

```

if (scale1 < scale)
    extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
    {
        n2ptr++;
        len2--;
    }

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
    {
        qdigits = scale+1;
        zero = TRUE;
    }
else
    {
        zero = FALSE;
        if (len2>len1)
            qdigits = scale+1; /* One for the zero integer part. */
        else
            qdigits = len1-len2+scale+1;
    }

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
    {
        /* Normalize */

```

```

norm = 10 / ((int)*n2ptr + 1);
if (norm != 1)
{
_one_mult (num1, len1+scale1+extra+1, norm, num1);
_one_mult (n2ptr, len2, norm, n2ptr);
}

/* Initialize divide loop. */
qdig = 0;
if (len2 > len1)
qptr = (unsigned char *) qval->n_value+len2-len1;
else
qptr = (unsigned char *) qval->n_value;

/* Loop */
while (qdig <= len1+scale-len2)
{
/* Calculate the quotient digit guess. */
if (*n2ptr == num1[qdig])
qguess = 9;
else
qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

/* Test qguess. */
if (n2ptr[1]*qguess >
(num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
+ num1[qdig+2])
{
qguess--;
/* And again. */
if (n2ptr[1]*qguess >
(num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
+ num1[qdig+2])
qguess--;
}

/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
*mval = 0;
_one_mult (n2ptr, len2, qguess, mval+1);
ptr1 = (unsigned char *) num1+qdig+len2;
ptr2 = (unsigned char *) mval+len2;
for (count = 0; count < len2+1; count++)
{
val = (int) *ptr1 - (int) *ptr2-- - borrow;
if (val < 0)

```

```

    {
        val += 10;
        borrow = 1;
    }
else
    borrow = 0;
*ptr1-- = val;
}
}

/* Test for negative result. */
if (borrow == 1)
{
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
            carry = 1;
        }
        else
            carry = 0;
        *ptr1-- = val;
    }
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);

```

```

free (num2);

return 0; /* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
is NULL then that store will be omitted.
*/

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;

    /* Calculate final scale. */
    rscale = MAX (num1->n_scale, num2->n_scale+scale);
    bc_init_num(&temp);

    /* Calculate it. */
    bc_divide (num1, num2, &temp, scale);
    if (quot)
        quotient = bc_copy_num (temp);
    bc_multiply (temp, num2, &temp, rscale);
    bc_sub (num1, temp, rem, rscale);
    bc_free_num (&temp);

    if (quot)
    {
        bc_free_num (quot);
        *quot = quotient;
    }

    return 0; /* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
result in RESULT. */

```

```

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
placed in RESULT. If a EXPO is not an integer,
only the integer part is used. */

int
bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
bc_num power, exponent, parity, temp;
int rscale;

/* Check for correct numbers. */
if (bc_is_zero(mod)) return -1;
if (bc_is_neg(expo)) return -1;

/* Set initial values. */
power = bc_copy_num (base);
exponent = bc_copy_num (expo);
temp = bc_copy_num (_one_);
bc_init_num(&parity);

/* Check the base for scale digits. */
if (base->n_scale != 0)
    bc_rt_warn ("non-zero scale in base");

/* Check the exponent for scale digits. */
if (exponent->n_scale != 0)
{
    bc_rt_warn ("non-zero scale in exponent");
    bc_divide (exponent, _one_, &exponent, 0); /*truncate */
}

/* Check the modulus for scale digits. */
if (mod->n_scale != 0)
    bc_rt_warn ("non-zero scale in modulus");

/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )

```

```

{
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
{
    bc_multiply (temp, power, &temp, rscale);
    (void) bc_modulo (temp, mod, &temp, scale);
}

    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
}

/* Assign the value. */
bc_free_num (&power);
bc_free_num (&exponent);
bc_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT.
Maximum exponent is LONG_MAX. If a NUM2 is not an integer,
only the integer part is used. */

void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    bc_num temp, power;
    long exponent;
    int rscale;
    int pwrscale;
    int calcscale;
    char neg;

    /* Check the exponent for scale digits and convert to a long. */
    if (num2->n_scale != 0)
        bc_rt_warn ("non-zero scale in exponent");
    exponent = bc_num2long (num2);
    if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
        bc_rt_error ("exponent too large in raise");

    /* Special case if exponent is a zero. */
    if (exponent == 0)
    {
        bc_free_num (result);
        *result = bc_copy_num (_one_);
    }
}

```

```

    return;
}

/* Other initializations. */
if (exponent < 0)
{
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
}
else
{
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

/* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
}
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
        calcscale = pwrscale + calcscale;
        bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

/* Assign the value. */
if (neg)
{
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
}
else

```

```

    {
        bc_free_num (result);
        *result = temp;
        if ((*result)->n_scale > rscale)
    (*result)->n_scale = rscale;
    }
    bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
after the decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
    int rscale, cmp_res, done;
    int cscale;
    bc_num guess, guess1, point5, diff;

    /* Initial checks. */
    cmp_res = bc_compare (*num, _zero_);
    if (cmp_res < 0)
        return 0; /* error */
    else
    {
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_zero_);
            return 1;
        }
        cmp_res = bc_compare (*num, _one_);
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_one_);
            return 1;
        }

        /* Initialize the variables. */
        rscale = MAX (scale, (*num)->n_scale);
        bc_init_num(&guess);
        bc_init_num(&guess1);
        bc_init_num(&diff);
        point5 = bc_new_num (1,1);

```

```

point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1. Guess should start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
    {
        if (cscale < rscale+1)
            cscale = MIN (cscale*3, rscale+1);
        else
            done = TRUE;
    }
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess,_one_,num,rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);

```

```

bc_free_num (&diff);
return 1;
}

/* The following routines provide output for bcd numbers package
using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
    long digit;
    struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly
SIZE characters must be output for the value VAL. If SPACE is
non-zero, we must output one space before the number. OUT_CHAR
is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
    char digits[40];
    int len, ix;

    if (space) (*out_char) (' ');
    sprintf (digits, "%ld", val);
    len = strlen (digits);
    while (size > len)
    {
        (*out_char) ('0');
        size--;
    }
    for (ix=0; ix < len; ix++)
        (*out_char) (digits[ix]);
}

```

```
/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
as the routine to do the actual output of the characters. */
```

```
void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
    char *nptr;
    int index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
    if (bc_is_zero (num))
        (*out_char) ('0');
    else
        if (o_base == 10)
            {
                /* The number is in base 10, do it the fast way. */
                nptr = num->n_value;
                if (num->n_len > 1 || *nptr != 0)
                    for (index=num->n_len; index>0; index--)
                        (*out_char) (BCD_CHAR(*nptr++));
                else
                    nptr++;

                if (leading_zero && bc_is_zero (num))
                    (*out_char) ('0');

                /* Now the fraction. */
                if (num->n_scale > 0)
                    {
                        (*out_char) ('. ');
                        for (index=0; index<num->n_scale; index++)
                            (*out_char) (BCD_CHAR(*nptr++));
                    }
            }
        else
```

```

    {
/* special case ... */
if (leading_zero && bc_is_zero (num))
    (*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bc_init_num (&int_part);
bc_divide (num, _one_, &int_part, 0);
bc_init_num (&frac_part);
bc_init_num (&cur_dig);
bc_init_num (&base);
bc_sub (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bc_int2num (&base, o_base);
bc_init_num (&max_o_digit);
bc_int2num (&max_o_digit, o_base-1);

/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
    {
        bc_modulo (int_part, base, &cur_dig, 0);
        temp = (stk_rec *) malloc (sizeof(stk_rec));
        if (temp == NULL) bc_out_of_memory();
        temp->digit = bc_num2long (cur_dig);
        temp->next = digits;
        digits = temp;
        bc_divide (int_part, base, &int_part, 0);
    }

/* Print the digits on the stack. */
if (digits != NULL)
    {
        /* Output the digits. */
        while (digits != NULL)
            {
                temp = digits;
                digits = digits->next;
                if (o_base <= 16)
                    (*out_char) (ref_str[ (int) temp->digit]);
                else
                    bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
                free (temp);
            }
    }
}

```

```

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) ('. ');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)
            (*out_char) (ref_str[fdigit]);
        else {
            bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
            pre_space = 1;
        }
        bc_multiply (t_num, base, &t_num, 0);
    }
    bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
}

/* Convert a number NUM to a long. The function returns only the integer
part of the number. For numbers that are too large to represent as
a long, this function returns a zero. This can be detected by checking
the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
    long val;
    char *nptr;
    int index;

    /* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)

```

```

    val = val*BASE + *nptr++;

    /* Check for overflow. If overflow, return zero. */
    if (index>0) val = 0;
    if (val < 0) val = 0;

    /* Return the value. */
    if (num->n_sign == PLUS)
        return (val);
    else
        return (-val);
}

```

```

/* Convert an integer VAL to a bc number NUM. */

```

```

void
bc_int2num (num, val)
    bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
    int ix = 1;
    char neg = 0;

    /* Sign. */
    if (val < 0)
    {
        neg = 1;
        val = -val;
    }

    /* Get things going. */
    bptr = buffer;
    *bptr++ = val % BASE;
    val = val / BASE;

    /* Extract remaining digits. */
    while (val != 0)
    {
        *bptr++ = val % BASE;
        val = val / BASE;
        ix++; /* Count the digits. */
    }

    /* Make the number. */
    bc_free_num (num);

```

```

*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
    *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only.*/

char
*num2str (num)
    bc_num num;
{
    char *str, *sptr;
    char *nptr;
    int index, signch;

    /* Allocate the string memory. */
    signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
    if (num->n_scale > 0)
        str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
    else
        str = (char *) malloc (num->n_len + 1 + signch);
    if (str == NULL) bc_out_of_memory();

    /* The negative sign if needed. */
    sptr = str;
    if (signch) *sptr++ = '-';

    /* Load the whole number. */
    nptr = num->n_value;
    for (index=num->n_len; index>0; index--)
        *sptr++ = BCD_CHAR(*nptr++);

    /* Now the fraction. */
    if (num->n_scale > 0)
    {
        *sptr++ = '.';
        for (index=0; index<num->n_scale; index++)
            *sptr++ = BCD_CHAR(*nptr++);
    }

    /* Terminate the string and return it! */
    *sptr = '\0';
    return (str);
}

```

```

/* Convert strings to bc numbers. Base 10 only.*/

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
int digits, strscale;
char *ptr, *nptr;
char zero_int;

/* Prepare num. */
bc_free_num (num);

/* Check for valid number and count digits. */
ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ((*ptr == '+') || (*ptr == '-')) ptr++; /* Sign */
while (*ptr == '0') ptr++; /* Skip leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
if (*ptr == '.') ptr++; /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*ptr != '\0') || (digits+strscale == 0))
{
    *num = bc_copy_num (_zero_);
    return;
}

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
    zero_int = TRUE;
    digits = 1;
}
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '-')
{
    (*num)->n_sign = MINUS;
    ptr++;
}
else

```

```

    {
        (*num)->n_sign = PLUS;
        if (*ptr == '+') ptr++;
    }
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
    {
        *nptr++ = 0;
        digits = 0;
    }
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
    {
        ptr++; /* skip the decimal point! */
        for (;strscale > 0; strscale--)
            *nptr++ = CH_VAL(*ptr++);
    }
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ("\n");
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;

```

```
{
int i;
printf ("%s=", name);
for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
printf ("\n");
}
```

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Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms

of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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1.89 libtirpc 1.3.1-r0

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1.90 open-ldap 2.4.23

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1.91 libjpeg 6b

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DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
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REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
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Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wjjpgcom.

*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability;

for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has

been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead;

it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from [ftp.sgi.com](ftp://ftp.sgi.com) or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found

there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it

is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.92 libdevmapper 1.02.117-7.el6

1.92.1 Available under license :

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Version 2.1, February 1999

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Theodore Ts'o
23-June-2007

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```
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```
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1.112 sed 4.2.1 10.e16

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is

linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact

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@subheading Preamble

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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As an exception to the Sections above, you may also combine or link a ``work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.120 cracklib 2.9.7

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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^L

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b) Give prominent notice with the combined library of the fact

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Also add information on how to contact you by electronic and paper mail.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20

library to dictact to application writes what license they should be using.=
=20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

>> I understand that, and you're welcome to bring it up with Alec

> directly

>> and see if he wants to relicense his code as LGPL... but at this

> point,

>> it was enough to just get it consistent and documented as to what

> it was

>> released under. This wasn't actually a license change, just a

>> clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt the

> place of a

> library to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.

> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>

> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please

use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.121 attr 2.4.48

1.121.1 Available under license :

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below.

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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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freedom to share and change it. By contrast, the GNU General Public

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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1.122 xmlrpc-c 1.16.24

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1.124 boost 1.75.0

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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////

[#mpl]

MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by including ``<boost/mp11/mpl_list.hpp>``, and for `std::tuple` by including ``<boost/mp11/mpl_tuple.hpp>``. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for `std::tuple`, which conflicts with Mp11's one.

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    Copyright Test
  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
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1.126 epel-release 6-8

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1.127 libconfig 1.3.2 1.1.e16

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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```

1.128 libssh2 1.4.2

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1.129 libsepol 2.0.41 4.el6

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.130 pam 1.1.1-13.e16

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1.131 net-tools 1.60 110.el6_2

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- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.132 zip 8.9.0

1.133 augeas 1.12.0

1.133.1 Available under license :

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Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.134 libdrm 2.4.39-1.el6

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/* radeon_drm.h -- Public header for the radeon driver -*- linux-c -*-

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* Joonyoung Shim <jy0922.shim@samsung.com>

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Found in path(s):

* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-
4OaDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/intel/intel_bufmgr.h

No license file was found, but licenses were detected in source scan.

From 77e3ab9962c13e75c121ba3686a07e441ebf9191 Mon Sep 17 00:00:00 2001

From: Ben Skeggs <bskeggs@redhat.com>

Date: Mon, 2 Jul 2012 10:50:45 +1000

Subject: [PATCH] nouveau: forward-port old nouveau interface to libdrm 2.4.37

For compatibility with current F17, the old interface's pkgconfig data
is the same as it was before. If we ever want to update the DDX or Mesa
to use the newer interface instead, libdrm_nouveau2 pkgconfig will be
needed instead.

v2: renamed libdrm_nouveau_2 to libdrm_nouveau2 as suggested by airlie

Makefile.am | 2 +-
configure.ac | 4 +-
nouveau-1/Makefile.am | 43 +++++
nouveau-1/libdrm_nouveau.pc.in | 11 +
nouveau-1/nouveau_bo.c | 549 +++

```

nouveau-1/nouveau_bo.h      | 104 ++++++++
nouveau-1/nouveau_channel.c | 142 ++++++++
nouveau-1/nouveau_channel.h | 57 +++++
nouveau-1/nouveau_device.c  | 198 ++++++++
nouveau-1/nouveau_device.h  | 33 +++
nouveau-1/nouveau_drmif.h   | 58 +++++
nouveau-1/nouveau_grobject.c | 148 ++++++++
nouveau-1/nouveau_grobject.h | 48 +++++
nouveau-1/nouveau_notifier.c | 148 ++++++++
nouveau-1/nouveau_notifier.h | 63 +++++
nouveau-1/nouveau_private.h | 136 ++++++++
nouveau-1/nouveau_pushbuf.c  | 344 ++++++++
nouveau-1/nouveau_pushbuf.h  | 162 ++++++++
nouveau-1/nouveau_reloc.c    | 154 ++++++++
nouveau-1/nouveau_reloc.h    | 32 +++
nouveau-1/nouveau_resource.c | 124 ++++++++
nouveau-1/nouveau_resource.h | 51 +++++
nouveau-1/nv04_pushbuf.h      | 66 +++++
nouveau-1/nvc0_pushbuf.h      | 92 ++++++
nouveau/Makefile.am           | 20 +-
nouveau/libdrm_nouveau.pc.in | 11 -
nouveau/libdrm_nouveau2.pc.in | 11 +
27 files changed, 2788 insertions(+), 23 deletions(-)
create mode 100644 nouveau-1/Makefile.am
create mode 100644 nouveau-1/libdrm_nouveau.pc.in
create mode 100644 nouveau-1/nouveau_bo.c
create mode 100644 nouveau-1/nouveau_bo.h
create mode 100644 nouveau-1/nouveau_channel.c
create mode 100644 nouveau-1/nouveau_channel.h
create mode 100644 nouveau-1/nouveau_device.c
create mode 100644 nouveau-1/nouveau_device.h
create mode 100644 nouveau-1/nouveau_drmif.h
create mode 100644 nouveau-1/nouveau_grobject.c
create mode 100644 nouveau-1/nouveau_grobject.h
create mode 100644 nouveau-1/nouveau_notifier.c
create mode 100644 nouveau-1/nouveau_notifier.h
create mode 100644 nouveau-1/nouveau_private.h
create mode 100644 nouveau-1/nouveau_pushbuf.c
create mode 100644 nouveau-1/nouveau_pushbuf.h
create mode 100644 nouveau-1/nouveau_reloc.c
create mode 100644 nouveau-1/nouveau_reloc.h
create mode 100644 nouveau-1/nouveau_resource.c
create mode 100644 nouveau-1/nouveau_resource.h
create mode 100644 nouveau-1/nv04_pushbuf.h
create mode 100644 nouveau-1/nvc0_pushbuf.h
delete mode 100644 nouveau/libdrm_nouveau.pc.in
create mode 100644 nouveau/libdrm_nouveau2.pc.in

```

```

diff --git a/Makefile.am b/Makefile.am
index 256a8cc..045add1 100644
--- a/Makefile.am
+++ b/Makefile.am
@@ -34,7 +34,7 @@ INTEL_SUBDIR = intel
endif

if HAVE_NOUVEAU
-NOUVEAU_SUBDIR = nouveau
+NOUVEAU_SUBDIR = nouveau-1 nouveau
endif

if HAVE_RADEON
diff --git a/configure.ac b/configure.ac
index a1c8c69..86dd25e 100644
--- a/configure.ac
+++ b/configure.ac
@@ -319,8 +319,10 @@ AC_CONFIG_FILES([
intel/libdrm_intel.pc
radeon/Makefile
radeon/libdrm_radeon.pc
+ nouveau-1/Makefile
+ nouveau-1/libdrm_nouveau.pc
nouveau/Makefile
- nouveau/libdrm_nouveau.pc
+ nouveau/libdrm_nouveau2.pc
omap/Makefile
omap/libdrm_omap.pc
exynos/Makefile
diff --git a/nouveau-1/Makefile.am b/nouveau-1/Makefile.am
new file mode 100644
index 0000000..8b89916
--- /dev/null
+++ b/nouveau-1/Makefile.am
@@ -0,0 +1,43 @@
+AM_CFLAGS = \
+ $(WARN_CFLAGS) \
+ -I$(top_srcdir) \
+ -I$(top_srcdir)/nouveau \
+ $(PTHREADSTUBS_CFLAGS) \
+ -I$(top_srcdir)/include/drm
+
+libdrm_nouveau_la_LTLIBRARIES = libdrm_nouveau.la
+libdrm_nouveau_ladir = $(libdir)
+libdrm_nouveau_la_LDFLAGS = -version-number 1:0:0 -no-undefined
+libdrm_nouveau_la_LIBADD = ../libdrm.la @PTHREADSTUBS_LIBS@
+
+libdrm_nouveau_la_SOURCES = \

```

```

+ nouveau_device.c \
+ nouveau_channel.c \
+ nouveau_pushbuf.c \
+ nouveau_grobject.c \
+ nouveau_notifier.c \
+ nouveau_bo.c \
+ nouveau_resource.c \
+ nouveau_private.h \
+ nouveau_reloc.c
+
+libdrm_nouveauincludedir = ${includedir}/nouveau
+libdrm_nouveaucommoninclude_HEADERS = \
+ nouveau_device.h \
+ nouveau_channel.h \
+ nouveau_grobject.h \
+ nouveau_notifier.h \
+ nouveau_pushbuf.h \
+ nv04_pushbuf.h \
+ nvc0_pushbuf.h \
+ nouveau_bo.h \
+ nouveau_resource.h \
+ nouveau_reloc.h
+
+
+libdrm_nouveauincludedir = ${includedir}/libdrm
+libdrm_nouveauinclude_HEADERS = \
+ nouveau_drmif.h
+
+pkgconfigdir = @pkgconfigdir@
+pkgconfig_DATA = libdrm_nouveau.pc
diff --git a/nouveau-1/libdrm_nouveau.pc.in b/nouveau-1/libdrm_nouveau.pc.in
new file mode 100644
index 0000000..c78a28a
--- /dev/null
+++ b/nouveau-1/libdrm_nouveau.pc.in
@@ -0,0 +1,11 @@
+prefix=@prefix@
+exec_prefix=@exec_prefix@
+libdir=@libdir@
+includedir=@includedir@
+
+Name: libdrm_nouveau
+Description: Userspace interface to nouveau kernel DRM services
+Version: 0.6
+Libs: -L${libdir} -ldrm_nouveau
+Cflags: -I${includedir} -I${includedir}/libdrm -I${includedir}/nouveau
+Requires.private: libdrm
diff --git a/nouveau-1/nouveau_bo.c b/nouveau-1/nouveau_bo.c

```

```

new file mode 100644
index 0000000..d6bb22d
--- /dev/null
+++ b/nouveau-1/nouveau_bo.c
@@ -0,0 +1,549 @@
+/*
+ * Copyright 2007 Nouveau Project
+ *
+ * Permission is hereby granted, free of charge, to any person obtaining a
+ * copy of this software and associated documentation files (the "Software"),
+ * to deal in the Software without restriction, including without limitation
+ * the rights to use, copy, modify, merge, publish, distribute, sublicense,
+ * and/or sell copies of the Software, and to permit persons to whom the
+ * Software is furnished to do so, subject to the following conditions:
+ *
+ * The above copyright notice and this permission notice shall be included in
+ * all copies or substantial portions of the Software.
+ *
+ * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
+ * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
+ * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
+ * THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
+ * WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
+ * OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
+ * SOFTWARE.
+ */
+
+#ifdef HAVE_CONFIG_H
+#include <config.h>
+#endif
+#include <stdint.h>
+#include <stdlib.h>
+#include <errno.h>
+#include <assert.h>
+
+#include <sys/mman.h>
+
+#include "nouveau_private.h"
+
+int
+nouveau_bo_init(struct nouveau_device *dev)
+{
+    return 0;
+}
+
+void
+nouveau_bo_takedown(struct nouveau_device *dev)
+{

```

```

+}
+
+static int
+nouveau_bo_info(struct nouveau_bo_priv *nvbo, struct drm_nouveau_gem_info *arg)
+{
+ nvbo->handle = nvbo->base.handle = arg->handle;
+ nvbo->domain = arg->domain;
+ nvbo->size = arg->size;
+ nvbo->offset = arg->offset;
+ nvbo->map_handle = arg->map_handle;
+ nvbo->base.tile_mode = arg->tile_mode;
+ /* XXX - flag inverted for backwards compatibility */
+ nvbo->base.tile_flags = arg->tile_flags ^ NOUVEAU_GEM_TILE_NONCONTIG;
+ return 0;
+}
+
+static int
+nouveau_bo_allocated(struct nouveau_bo_priv *nvbo)
+{
+ if (nvbo->systemem || nvbo->handle)
+ return 1;
+ return 0;
+}
+
+static int
+nouveau_bo_ualloc(struct nouveau_bo_priv *nvbo)
+{
+ if (nvbo->user || nvbo->systemem) {
+ assert(nvbo->systemem);
+ return 0;
+ }
+
+ nvbo->systemem = malloc(nvbo->size);
+ if (!nvbo->systemem)
+ return -ENOMEM;
+
+ return 0;
+}
+
+static void
+nouveau_bo_ufree(struct nouveau_bo_priv *nvbo)
+{
+ if (nvbo->systemem) {
+ if (!nvbo->user)
+ free(nvbo->systemem);
+ nvbo->systemem = NULL;
+ }
+}

```

```

+
+static void
+nouveau_bo_kfree(struct nouveau_bo_priv *nvbo)
+{
+ struct nouveau_device_priv *nvdev = nouveau_device(nvbo->base.device);
+ struct drm_gem_close req;
+
+ if (!nvbo->handle)
+ return;
+
+ if (nvbo->map) {
+ munmap(nvbo->map, nvbo->size);
+ nvbo->map = NULL;
+ }
+
+ req.handle = nvbo->handle;
+ nvbo->handle = 0;
+ drmIoctl(nvdev->fd, DRM_IOCTL_GEM_CLOSE, &req);
+}
+
+static int
+nouveau_bo_kalloc(struct nouveau_bo_priv *nvbo, struct nouveau_channel *chan)
+{
+ struct nouveau_device_priv *nvdev = nouveau_device(nvbo->base.device);
+ struct drm_nouveau_gem_new req;
+ struct drm_nouveau_gem_info *info = &req.info;
+ int ret;
+
+ if (nvbo->handle)
+ return 0;
+
+ req.channel_hint = chan ? chan->id : 0;
+ req.align = nvbo->align;
+
+
+ info->size = nvbo->size;
+ info->domain = 0;
+
+ if (nvbo->flags & NOUVEAU_BO_VRAM)
+ info->domain |= NOUVEAU_GEM_DOMAIN_VRAM;
+ if (nvbo->flags & NOUVEAU_BO_GART)
+ info->domain |= NOUVEAU_GEM_DOMAIN_GART;
+ if (!info->domain) {
+ info->domain |= (NOUVEAU_GEM_DOMAIN_VRAM |
+ NOUVEAU_GEM_DOMAIN_GART);
+ }
+
+ if (nvbo->flags & NOUVEAU_BO_MAP)

```

```

+ info->domain |= NOUVEAU_GEM_DOMAIN_MAPPABLE;
+
+ info->tile_mode = nvbo->base.tile_mode;
+ info->tile_flags = nvbo->base.tile_flags;
+ /* XXX - flag inverted for backwards compatibility */
+ info->tile_flags ^= NOUVEAU_GEM_TILE_NONCONTIG;
+ if (!nvdev->has_bo_usage)
+ info->tile_flags &= NOUVEAU_GEM_TILE_LAYOUT_MASK;
+
+ ret = drmCommandWriteRead(nvdev->fd, DRM_NOUVEAU_GEM_NEW,
+ &req, sizeof(req));
+ if (ret)
+ return ret;
+
+ nouveau_bo_info(nvbo, &req.info);
+ return 0;
+}
+
+static int
+nouveau_bo_kmap(struct nouveau_bo_priv *nvbo)
+{
+ struct nouveau_device_priv *nvdev = nouveau_device(nvbo->base.device);
+
+ if (nvbo->map)
+ return 0;
+
+ if (!nvbo->map_handle)
+ return -EINVAL;
+
+ nvbo->map = mmap(0, nvbo->size, PROT_READ | PROT_WRITE,
+ MAP_SHARED, nvdev->fd, nvbo->map_handle);
+ if (nvbo->map == MAP_FAILED) {
+ nvbo->map = NULL;
+ return -errno;
+ }
+
+ return 0;
+}
+
+int
+nouveau_bo_new_tile(struct nouveau_device *dev, uint32_t flags, int align,
+ int size, uint32_t tile_mode, uint32_t tile_flags,
+ struct nouveau_bo **bo)
+{
+ struct nouveau_bo_priv *nvbo;
+ int ret;
+
+ if (!dev || !bo || *bo)

```

```

+ return -EINVAL;
+
+ nvbo = calloc(1, sizeof(struct nouveau_bo_priv));
+ if (!nvbo)
+ return -ENOMEM;
+ nvbo->base.device = dev;
+ nvbo->base.size = size;
+ nvbo->base.tile_mode = tile_mode;
+ nvbo->base.tile_flags = tile_flags;
+
+ nvbo->refcount = 1;
+ nvbo->flags = flags;
+ nvbo->size = size;
+ nvbo->align = align;
+
+ if (flags & (NOUVEAU_BO_VRAM | NOUVEAU_BO_GART)) {
+ ret = nouveau_bo_kalloc(nvbo, NULL);
+ if (ret) {
+ nouveau_bo_ref(NULL, (void *)&nvbo);
+ return ret;
+ }
+ }
+
+ *bo = &nvbo->base;
+ return 0;
+}
+
+int
+nouveau_bo_new(struct nouveau_device *dev, uint32_t flags, int align,
+ int size, struct nouveau_bo **bo)
+{
+ return nouveau_bo_new_tile(dev, flags, align, size, 0, 0, bo);
+}
+
+int
+nouveau_bo_user(struct nouveau_device *dev, void *ptr, int size,
+ struct nouveau_bo **bo)
+{
+ struct nouveau_bo_priv *nvbo;
+ int ret;
+
+ ret = nouveau_bo_new(dev, NOUVEAU_BO_MAP, 0, size, bo);
+ if (ret)
+ return ret;
+ nvbo = nouveau_bo(*bo);
+
+ nvbo->systemem = ptr;
+ nvbo->user = 1;

```

```

+ return 0;
+ }
+
+int
+nouveau_bo_wrap(struct nouveau_device *dev, uint32_t handle,
+ struct nouveau_bo **bo)
+ {
+ struct nouveau_device_priv *nvdev = nouveau_device(dev);
+ struct drm_nouveau_gem_info req;
+ struct nouveau_bo_priv *nvbo;
+ int ret;
+
+ ret = nouveau_bo_new(dev, 0, 0, 0, bo);
+ if (ret)
+ return ret;
+ nvbo = nouveau_bo(*bo);
+
+ req.handle = handle;
+ ret = drmCommandWriteRead(nvdev->fd, DRM_NOUVEAU_GEM_INFO,
+ &req, sizeof(req));
+ if (ret) {
+ nouveau_bo_ref(NULL, bo);
+ return ret;
+ }
+
+ nouveau_bo_info(nvbo, &req);
+ nvbo->base.size = nvbo->size;
+ return 0;
+ }
+
+int
+nouveau_bo_handle_get(struct nouveau_bo *bo, uint32_t *handle)
+ {
+ struct nouveau_device_priv *nvdev = nouveau_device(bo->device);
+ struct nouveau_bo_priv *nvbo = nouveau_bo(bo);
+ int ret;
+
+ if (!bo || !handle)
+ return -EINVAL;
+
+ if (!nvbo->global_handle) {
+ struct drm_gem_flink req;
+
+ ret = nouveau_bo_kalloc(nvbo, NULL);
+ if (ret)
+ return ret;
+
+ req.handle = nvbo->handle;

```

```

+ ret = drmIoctl(nvdev->fd, DRM_IOCTL_GEM_FLINK, &req);
+ if (ret) {
+   nouveau_bo_kfree(nvbo);
+   return ret;
+ }
+
+ nvbo->global_handle = req.name;
+ }
+
+ *handle = nvbo->global_handle;
+ return 0;
+}
+
+int
+nouveau_bo_handle_ref(struct nouveau_device *dev, uint32_t handle,
+   struct nouveau_bo **bo)
+{
+   struct nouveau_device_priv *nvdev = nouveau_device(dev);
+   struct nouveau_bo_priv *nvbo;
+   struct drm_gem_open req;
+   int ret;
+
+   req.name = handle;
+   ret = drmIoctl(nvdev->fd, DRM_IOCTL_GEM_OPEN, &req);
+   if (ret) {
+     nouveau_bo_ref(NULL, bo);
+     return ret;
+   }
+
+   ret = nouveau_bo_wrap(dev, req.handle, bo);
+   if (ret) {
+     nouveau_bo_ref(NULL, bo);
+     return ret;
+   }
+
+   nvbo = nouveau_bo(*bo);
+   nvbo->base.handle = nvbo->handle;
+   return 0;
+}
+
+static void
+nouveau_bo_del(struct nouveau_bo **bo)
+{
+   struct nouveau_bo_priv *nvbo;
+
+   if (!bo || !*bo)
+     return;
+   nvbo = nouveau_bo(*bo);

```

```

+ *bo = NULL;
+
+ if (--nvbo->refcount)
+ return;
+
+ if (nvbo->pending) {
+ nvbo->pending = NULL;
+ nouveau_pushbuf_flush(nvbo->pending_channel, 0);
+ }
+
+ nouveau_bo_ufree(nvbo);
+ nouveau_bo_kfree(nvbo);
+ free(nvbo);
+}
+
+int
+nouveau_bo_ref(struct nouveau_bo *ref, struct nouveau_bo **pbo)
+{
+ if (!pbo)
+ return -EINVAL;
+
+ if (ref)
+ nouveau_bo(ref)->refcount++;
+
+ if (*pbo)
+ nouveau_bo_del(pbo);
+
+ *pbo = ref;
+ return 0;
+}
+
+static int
+nouveau_bo_wait(struct nouveau_bo *bo, int cpu_write, int no_wait, int no_block)
+{
+ struct nouveau_device_priv *nvdev = nouveau_device(bo->device);
+ struct nouveau_bo_priv *nvbo = nouveau_bo(bo);
+ struct drm_nouveau_gem_cpu_prep req;
+ int ret;
+
+ if (!nvbo->global_handle && !nvbo->write_marker && !cpu_write)
+ return 0;
+
+ if (nvbo->pending &&
+ (nvbo->pending->write_domains || cpu_write)) {
+ nvbo->pending = NULL;
+ nouveau_pushbuf_flush(nvbo->pending_channel, 0);
+ }
+

```

```

+ req.handle = nvbo->handle;
+ req.flags = 0;
+ if (cpu_write)
+ req.flags |= NOUVEAU_GEM_CPU_PREP_WRITE;
+ if (no_wait)
+ req.flags |= NOUVEAU_GEM_CPU_PREP_NOWAIT;
+ if (no_block)
+ req.flags |= NOUVEAU_GEM_CPU_PREP_NOBLOCK;
+
+ do {
+ ret = drmCommandWrite(nvdev->fd, DRM_NOUVEAU_GEM_CPU_PREP,
+     &req, sizeof(req));
+ } while (ret == -EAGAIN);
+ if (ret)
+ return ret;
+
+ if (ret == 0)
+ nvbo->write_marker = 0;
+ return 0;
+}
+
+int
+nouveau_bo_map_range(struct nouveau_bo *bo, uint32_t delta, uint32_t size,
+    uint32_t flags)
+{
+ struct nouveau_bo_priv *nvbo = nouveau_bo(bo);
+ int ret;
+
+ if (!nvbo || bo->map)
+ return -EINVAL;
+
+ if (!nouveau_bo_allocated(nvbo)) {
+ if (nvbo->flags & (NOUVEAU_BO_VRAM | NOUVEAU_BO_GART)) {
+ ret = nouveau_bo_kalloc(nvbo, NULL);
+ if (ret)
+ return ret;
+ }
+
+ if (!nouveau_bo_allocated(nvbo)) {
+ ret = nouveau_bo_ualloc(nvbo);
+ if (ret)
+ return ret;
+ }
+ }
+
+ if (nvbo->sysmem) {
+ bo->map = (char *)nvbo->sysmem + delta;
+ } else {

```

```

+ ret = nouveau_bo_kmap(nvbo);
+ if (ret)
+ return ret;
+
+ if (!(flags & NOUVEAU_BO_NOSYNC)) {
+ ret = nouveau_bo_wait(bo, (flags & NOUVEAU_BO_WR),
+ (flags & NOUVEAU_BO_NOWAIT), 0);
+ if (ret)
+ return ret;
+
+ nvbo->map_refcnt++;
+ }
+
+ bo->map = (char *)nvbo->map + delta;
+ }
+
+ return 0;
+}
+
+void
+nouveau_bo_map_flush(struct nouveau_bo *bo, uint32_t delta, uint32_t size)
+{
+}
+
+int
+nouveau_bo_map(struct nouveau_bo *bo, uint32_t flags)
+{
+ return nouveau_bo_map_range(bo, 0, bo->size, flags);
+}
+
+void
+nouveau_bo_unmap(struct nouveau_bo *bo)
+{
+ struct nouveau_bo_priv *nvbo = nouveau_bo(bo);
+
+ if (bo->map && !nvbo->systemem && nvbo->map_refcnt) {
+ struct nouveau_device_priv *nvdev = nouveau_device(bo->device);
+ struct drm_nouveau_gem_cpu_fini req;
+
+ req.handle = nvbo->handle;
+ drmCommandWrite(nvdev->fd, DRM_NOUVEAU_GEM_CPU_FINI,
+ &req, sizeof(req));
+ nvbo->map_refcnt--;
+ }
+
+ bo->map = NULL;
+}
+

```

```

+int
+nouveau_bo_busy(struct nouveau_bo *bo, uint32_t access)
+{
+ return nouveau_bo_wait(bo, (access & NOUVEAU_BO_WR), 1, 1);
+}
+
+uint32_t
+nouveau_bo_pending(struct nouveau_bo *bo)
+{
+ struct nouveau_bo_priv *nvbo = nouveau_bo(bo);
+ uint32_t flags;
+
+ if (!nvbo->pending)
+ return 0;
+
+ flags = 0;
+ if (nvbo->pending->read_domains)
+ flags |= NOUVEAU_BO_RD;
+ if (nvbo->pending->write_domains)
+ flags |= NOUVEAU_BO_WR;
+
+ return flags;
+}
+
+struct drm_nouveau_gem_pushbuf_bo *
+nouveau_bo_emit_buffer(struct nouveau_channel *chan, struct nouveau_bo *bo)
+{
+ struct nouveau_pushbuf_priv *nvpb = &nouveau_channel(chan)->pb;
+ struct nouveau_bo_priv *nvbo = nouveau_bo(bo);
+ struct drm_nouveau_gem_pushbuf_bo *pbbo;
+ struct nouveau_bo *ref = NULL;
+ int ret;
+
+ if (nvbo->pending)
+ return nvbo->pending;
+
+ if (!nvbo->handle) {
+ ret = nouveau_bo_kalloc(nvbo, chan);
+ if (ret)
+ return NULL;
+
+ if (nvbo->systemem) {
+ void *systemem_tmp = nvbo->systemem;
+
+ nvbo->systemem = NULL;
+ ret = nouveau_bo_map(bo, NOUVEAU_BO_WR);
+ if (ret)
+ return NULL;

```

```

+ nvbo->sysmem = sysmem_tmp;
+
+ memcpy(bo->map, nvbo->sysmem, nvbo->base.size);
+ nouveau_bo_ufree(nvbo);
+ nouveau_bo_unmap(bo);
+ }
+ }
+
+ if (nvpb->nr_buffers >= NOUVEAU_GEM_MAX_BUFFERS)
+ return NULL;
+ pbbo = nvpb->buffers + nvpb->nr_buffers++;
+ nvbo->pending = pbbo;
+ nvbo->pending_channel = chan;
+ nvbo->pending_refcnt = 0;
+
+ nouveau_bo_ref(bo, &ref);
+ pbbo->user_priv = (uint64_t)(unsigned long)ref;
+ pbbo->handle = nvbo->handle;
+ pbbo->valid_domains = NOUVEAU_GEM_DOMAIN_VRAM | NOUVEAU_GEM_DOMAIN_GART;
+ pbbo->read_domains = 0;
+ pbbo->write_domains = 0;
+ pbbo->presumed.domain = nvbo->domain;
+ pbbo->presumed.offset = nvbo->offset;
+ pbbo->presumed.valid = 1;
+ return pbbo;
+}
diff --git a/nouveau-1/nouveau_bo.h b/nouveau-1/nouveau_bo.h
new file mode 100644
index 0000000..3a1f2d4
--- /dev/null
+++ b/nouveau-1/nouveau_bo.h
@@ -0,0 +1,104 @@
+/*
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+ * SOFTWARE.
+ */
+
+#ifndef __NOUVEAU_BO_H__
+#define __NOUVEAU_BO_H__
+
+/* Relocation/Buffer type flags */
+#define NOUVEAU_BO_VRAM (1 << 0)
+#define NOUVEAU_BO_GART (1 << 1)
+#define NOUVEAU_BO_RD (1 << 2)
+#define NOUVEAU_BO_WR (1 << 3)
+#define NOUVEAU_BO_RDWR (NOUVEAU_BO_RD | NOUVEAU_BO_WR)
+#define NOUVEAU_BO_MAP (1 << 4)
+#define NOUVEAU_BO_LOW (1 << 6)
+#define NOUVEAU_BO_HIGH (1 << 7)
+#define NOUVEAU_BO_OR (1 << 8)
+#define NOUVEAU_BO_INVALID (1 << 12)
+#define NOUVEAU_BO_NOSYNC (1 << 13)
+#define NOUVEAU_BO_NOWAIT (1 << 14)
+#define NOUVEAU_BO_IFLUSH (1 << 15)
+#define NOUVEAU_BO_DUMMY (1 << 31)
+
+#define NOUVEAU_BO_TILE_LAYOUT_MASK 0x0000ff00
+#define NOUVEAU_BO_TILE_16BPP 0x00000001
+#define NOUVEAU_BO_TILE_32BPP 0x00000002
+#define NOUVEAU_BO_TILE_ZETA 0x00000004
+#define NOUVEAU_BO_TILE_SCANOUT 0x00000008
+
+struct nouveau_bo {
+ struct nouveau_device *device;
+ uint32_t handle;
+
+ uint64_t size;
+ void *map;
+
+ uint32_t tile_mode;
+ uint32_t tile_flags;
+};
+
+int
+nouveau_bo_new(struct nouveau_device *, uint32_t flags, int align, int size,
+ struct nouveau_bo **);
+
+int
+nouveau_bo_new_tile(struct nouveau_device *, uint32_t flags, int align,

```

```

+   int size, uint32_t tile_mode, uint32_t tile_flags,
+   struct nouveau_bo **);
+
+int
+nouveau_bo_user(struct nouveau_device *, void *ptr, int size,
+ struct nouveau_bo **);
+
+int
+nouveau_bo_wrap(struct nouveau_device *, uint32_t handle, struct nouveau_bo **);
+
+int
+nouveau_bo_handle_get(struct nouveau_bo *, uint32_t *);
+
+int
+nouveau_bo_handle_ref(struct nouveau_device *, uint32_t handle,
+   struct nouveau_bo **);
+
+int
+nouveau_bo_ref(struct nouveau_bo *, struct nouveau_bo **);
+
+int
+nouveau_bo_map_range(struct nouveau_bo *, uint32_t delta, uint32_t size,
+   uint32_t flags);
+
+void
+nouveau_bo_map_flush(struct nouveau_bo *, uint32_t delta, uint32_t size);
+
+int
+nouveau_bo_map(struct nouveau_bo *, uint32_t flags);
+
+void
+nouveau_bo_unmap(struct nouveau_bo *);
+
+int
+nouveau_bo_busy(struct nouveau_bo *, uint32_t access);
+
+uint32_t
+nouveau_bo_pending(struct nouveau_bo *);
+
+endif
diff --git a/nouveau-1/nouveau_channel.c b/nouveau-1/nouveau_channel.c
new file mode 100644
index 0000000..96fa03b
--- /dev/null
+++ b/nouveau-1/nouveau_channel.c
@@ -0,0 +1,142 @@
+/*
+ * Copyright 2007 Nouveau Project

```

```

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+ */
+
+#include <stdlib.h>
+#include <string.h>
+#include <errno.h>
+
+#include "nouveau_private.h"
+
+int
+nouveau_channel_alloc(struct nouveau_device *dev, uint32_t fb_ctxdma,
+    uint32_t tt_ctxdma, int pushbuf_size,
+    struct nouveau_channel **chan)
+{
+    struct nouveau_device_priv *nvdev = nouveau_device(dev);
+    struct nouveau_channel_priv *nvchan;
+    unsigned i;
+    int ret;
+
+    if (!nvdev || !chan || *chan)
+        return -EINVAL;
+
+    nvchan = calloc(1, sizeof(struct nouveau_channel_priv));
+    if (!nvchan)
+        return -ENOMEM;
+    nvchan->base.device = dev;
+
+    nvchan->drm.fb_ctxdma_handle = fb_ctxdma;
+    nvchan->drm.tt_ctxdma_handle = tt_ctxdma;
+    ret = drmCommandWriteRead(nvdev->fd, DRM_NOUVEAU_CHANNEL_ALLOC,
+        &nvchan->drm, sizeof(nvchan->drm));

```

```

+ if (ret) {
+ free(nvchan);
+ return ret;
+ }
+
+ nvchan->base.id = nvchan->drm.channel;
+ if (nouveau_grobj_ref(&nvchan->base, nvchan->drm.fb_ctxdma_handle,
+ &nvchan->base.vram) ||
+ nouveau_grobj_ref(&nvchan->base, nvchan->drm.tt_ctxdma_handle,
+ &nvchan->base.gart)) {
+ nouveau_channel_free((void *)&nvchan);
+ return -EINVAL;
+ }
+
+ /* Mark all DRM-assigned subchannels as in-use */
+ for (i = 0; i < nvchan->drm.nr_subchan; i++) {
+ struct nouveau_grobj_priv *gr = calloc(1, sizeof(*gr));
+
+ gr->base.bound = NOUVEAU_GROBJ_BOUND_EXPLICIT;
+ gr->base.subc = i;
+ gr->base.handle = nvchan->drm.subchan[i].handle;
+ gr->base.grclass = nvchan->drm.subchan[i].grclass;
+ gr->base.channel = &nvchan->base;
+
+ nvchan->base.subc[i].gr = &gr->base;
+ }
+
+ if (dev->chipset < 0xc0) {
+ ret = nouveau_bo_wrap(dev, nvchan->drm.notifier_handle,
+ &nvchan->notifier_bo);
+ if (!ret)
+ ret = nouveau_bo_map(nvchan->notifier_bo,
+ NOUVEAU_BO_RDWR);
+ if (ret) {
+ nouveau_channel_free((void *)&nvchan);
+ return ret;
+ }
+
+ ret = nouveau_grobj_alloc(&nvchan->base, 0x00000000, 0x0030,
+ &nvchan->base.nullobj);
+ if (ret) {
+ nouveau_channel_free((void *)&nvchan);
+ return ret;
+ }
+ }
+
+ ret = nouveau_pushbuf_init(&nvchan->base, pushbuf_size);
+ if (ret) {

```

```

+ nouveau_channel_free((void *)&nvchan);
+ return ret;
+ }
+
+ *chan = &nvchan->base;
+ return 0;
+}
+
+void
+nouveau_channel_free(struct nouveau_channel **chan)
+{
+ struct nouveau_channel_priv *nvchan;
+ struct nouveau_device_priv *nvdev;
+ struct drm_nouveau_channel_free cf;
+ unsigned i;
+
+ if (!chan || !**chan)
+ return;
+ nvchan = nouveau_channel(*chan);
+ (*chan)->flush_notify = NULL;
+ *chan = NULL;
+ nvdev = nouveau_device(nvchan->base.device);
+
+ FIRE_RING(&nvchan->base);
+
+ nouveau_pushbuf_fini(&nvchan->base);
+ if (nvchan->notifier_bo) {
+ nouveau_bo_unmap(nvchan->notifier_bo);
+ nouveau_bo_ref(NULL, &nvchan->notifier_bo);
+ }
+
+ for (i = 0; i < nvchan->drm.nr_subchan; i++)
+ free(nvchan->base.subc[i].gr);
+
+ nouveau_grobj_free(&nvchan->base.vram);
+ nouveau_grobj_free(&nvchan->base.gart);
+ nouveau_grobj_free(&nvchan->base.nullobj);
+
+ cf.channel = nvchan->drm.channel;
+ drmCommandWrite(nvdev->fd, DRM_NOUVEAU_CHANNEL_FREE, &cf, sizeof(cf));
+ free(nvchan);
+}
+
+
+
diff --git a/nouveau-1/nouveau_channel.h b/nouveau-1/nouveau_channel.h
new file mode 100644
index 0000000..d61a4c0
--- /dev/null

```

```

+++ b/nouveau-1/nouveau_channel.h
@@ -0,0 +1,57 @@
+/*
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+ * SOFTWARE.
+ */
+
+#ifndef __NOUVEAU_CHANNEL_H__
+#define __NOUVEAU_CHANNEL_H__
+
+struct nouveau_subchannel {
+ struct nouveau_grobj *gr;
+ unsigned sequence;
+};
+
+struct nouveau_channel {
+ uint32_t *cur;
+ uint32_t *end;
+
+ struct nouveau_device *device;
+ int id;
+
+ struct nouveau_grobj *nullobj;
+ struct nouveau_grobj *vram;
+ struct nouveau_grobj *gart;
+
+ void *user_private;
+ void (*hang_notify)(struct nouveau_channel *);
+ void (*flush_notify)(struct nouveau_channel *);
+
+ struct nouveau_subchannel subc[8];

```

```

+ unsigned subc_sequence;
+ };
+
+ int
+nouveau_channel_alloc(struct nouveau_device *, uint32_t fb, uint32_t tt,
+   int pushbuf_size, struct nouveau_channel **);
+
+ void
+nouveau_channel_free(struct nouveau_channel **);
+
+ #endif
diff --git a/nouveau-1/nouveau_device.c b/nouveau-1/nouveau_device.c
new file mode 100644
index 0000000..425c5d2
--- /dev/null
+++ b/nouveau-1/nouveau_device.c
@@ -0,0 +1,198 @@
+/*
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+ * SOFTWARE.
+ */
+
+ #include <stdio.h>
+ #include <stdlib.h>
+ #include <errno.h>
+
+ #include "nouveau_private.h"
+
+ int
+nouveau_device_open_existing(struct nouveau_device **dev, int close,
+   int fd, drm_context_t ctx)

```

```

+{
+ struct nouveau_device_priv *nvdev;
+ drmVersionPtr ver;
+ uint64_t value;
+ int ret;
+
+ if (!dev || *dev)
+   return -EINVAL;
+
+ nvdev = calloc(1, sizeof(*nvdev));
+ if (!nvdev)
+   return -ENOMEM;
+ nvdev->fd = fd;
+ nvdev->ctx = ctx;
+ nvdev->needs_close = close;
+
+ ver = drmGetVersion(fd);
+ if (!ver) {
+   nouveau_device_close((void *)&nvdev);
+   return -EINVAL;
+ }
+
+ if ((ver->version_major == 0 && ver->version_patchlevel != 16) ||
+     ver->version_major > 1) {
+   nouveau_device_close((void *)&nvdev);
+   return -EINVAL;
+ }
+
+ drmFreeVersion(ver);
+
+ ret = nouveau_device_get_param(&nvdev->base,
+   NOUVEAU_GETPARAM_VM_VRAM_BASE, &value);
+ if (ret) {
+   nouveau_device_close((void *)&nvdev);
+   return ret;
+ }
+ nvdev->base.vm_vram_base = value;
+
+ ret = nouveau_device_get_param(&nvdev->base,
+   NOUVEAU_GETPARAM_FB_SIZE, &value);
+ if (ret) {
+   nouveau_device_close((void *)&nvdev);
+   return ret;
+ }
+ nvdev->base.vm_vram_size = value;
+
+ ret = nouveau_device_get_param(&nvdev->base,
+   NOUVEAU_GETPARAM_AGP_SIZE, &value);

```

```

+ if (ret) {
+ nouveau_device_close((void *)&nvdev);
+ return ret;
+ }
+ nvdev->base.vm_gart_size = value;
+
+ ret = nouveau_bo_init(&nvdev->base);
+ if (ret) {
+ nouveau_device_close((void *)&nvdev);
+ return ret;
+ }
+
+ ret = nouveau_device_get_param(&nvdev->base,
+     NOUVEAU_GETPARAM_CHIPSET_ID, &value);
+ if (ret) {
+ nouveau_device_close((void *)&nvdev);
+ return ret;
+ }
+ nvdev->base.chipset = value;
+
+ ret = nouveau_device_get_param(&nvdev->base,
+     NOUVEAU_GETPARAM_HAS_BO_USAGE, &value);
+ if (!ret)
+ nvdev->has_bo_usage = value;
+
+ *dev = &nvdev->base;
+ return 0;
+}
+
+int
+nouveau_device_open(struct nouveau_device **dev, const char *busid)
+{
+ drm_context_t ctx;
+ int fd, ret;
+
+ if (!dev || *dev)
+ return -EINVAL;
+
+ fd = drmOpen("nouveau", busid);
+ if (fd < 0)
+ return -EINVAL;
+
+ ret = drmCreateContext(fd, &ctx);
+ if (ret) {
+ drmClose(fd);
+ return ret;
+ }
+
+

```

```

+ ret = nouveau_device_open_existing(dev, 1, fd, ctx);
+ if (ret) {
+   drmDestroyContext(fd, ctx);
+   drmClose(fd);
+   return ret;
+ }
+
+ return 0;
+}
+
+void
+nouveau_device_close(struct nouveau_device **dev)
+{
+ struct nouveau_device_priv *nvdev;
+
+ if (!dev || !*dev)
+   return;
+ nvdev = nouveau_device(*dev);
+ *dev = NULL;
+
+ nouveau_bo_takedown(&nvdev->base);
+
+ if (nvdev->needs_close) {
+   drmDestroyContext(nvdev->fd, nvdev->ctx);
+   drmClose(nvdev->fd);
+ }
+ free(nvdev);
+}
+
+int
+nouveau_device_get_param(struct nouveau_device *dev,
+ uint64_t param, uint64_t *value)
+{
+ struct nouveau_device_priv *nvdev = nouveau_device(dev);
+ struct drm_nouveau_getparam g;
+ int ret;
+
+ if (!nvdev || !value)
+   return -EINVAL;
+
+ g.param = param;
+ ret = drmCommandWriteRead(nvdev->fd, DRM_NOUVEAU_GETPARAM,
+   &g, sizeof(g));
+ if (ret)
+   return ret;
+
+ *value = g.value;
+ return 0;

```

```

+}
+
+int
+nouveau_device_set_param(struct nouveau_device *dev,
+ uint64_t param, uint64_t value)
+{
+ struct nouveau_device_priv *nvdev = nouveau_device(dev);
+ struct drm_nouveau_setparam s;
+ int ret;
+
+ if (!nvdev)
+ return -EINVAL;
+
+ s.param = param;
+ s.value = value;
+ ret = drmCommandWriteRead(nvdev->fd, DRM_NOUVEAU_SETPARAM,
+ &s, sizeof(s));
+ if (ret)
+ return ret;
+
+ return 0;
+}
+

```

```
diff --git a/nouveau-1/nouveau_device.h b/nouveau-1/nouveau_device.h
```

```
new file mode 100644
```

```
index 0000000..c0d9333
```

```
--- /dev/null
```

```
+++ b/nouveau-1/nouveau_device.h
```

```
@@ -0,0 +1,33 @@
```

```
+/*
```

```
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```

```
+ *
```

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```

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+ *
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```

```

+ * SOFTWARE.
+ */
+
+#ifndef __NOUVEAU_DEVICE_H__
+#define __NOUVEAU_DEVICE_H__
+
+struct nouveau_device {
+ unsigned chipset;
+ uint64_t vm_vram_base;
+ uint64_t vm_vram_size;
+ uint64_t vm_gart_size;
+};
+
+#endif
diff --git a/nouveau-1/nouveau_drmif.h b/nouveau-1/nouveau_drmif.h
new file mode 100644
index 0000000..ec226a2
--- /dev/null
+++ b/nouveau-1/nouveau_drmif.h
@@ -0,0 +1,58 @@
+/*
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+ */
+
+#ifndef __NOUVEAU_DRMIF_H__
+#define __NOUVEAU_DRMIF_H__
+
+#include <stdint.h>
+#include <xf86drm.h>
+

```

```

+#include "nouveau_device.h"
+
+struct nouveau_device_priv {
+ struct nouveau_device base;
+
+ int fd;
+ drm_context_t ctx;
+ drmLock *lock;
+ int needs_close;
+ int has_bo_usage;
+};
+#define nouveau_device(n) ((struct nouveau_device_priv *) (n))
+
+int
+nouveau_device_open_existing(struct nouveau_device **, int close,
+ int fd, drm_context_t ctx);
+
+int
+nouveau_device_open(struct nouveau_device **, const char *busid);
+
+void
+nouveau_device_close(struct nouveau_device **);
+
+int
+nouveau_device_get_param(struct nouveau_device *, uint64_t param, uint64_t *v);
+
+int
+nouveau_device_set_param(struct nouveau_device *, uint64_t param, uint64_t val);
+
+#endif
diff --git a/nouveau-1/nouveau_grobject b/nouveau-1/nouveau_grobject
new file mode 100644
index 0000000..36344b9
--- /dev/null
+++ b/nouveau-1/nouveau_grobject
@@ -0,0 +1,148 @@
+/*
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```

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+ * SOFTWARE.
+ */
+
+#include <stdlib.h>
+#include <errno.h>
+
+#include "nouveau_private.h"
+
+int
+nouveau_grobj_alloc(struct nouveau_channel *chan, uint32_t handle,
+ int class, struct nouveau_grobj **grobj)
+{
+ struct nouveau_device_priv *nvdev = nouveau_device(chan->device);
+ struct nouveau_grobj_priv *nvgrobj;
+ struct drm_nouveau_grobj_alloc g;
+ int ret;
+
+ if (!nvdev || !grobj || *grobj)
+ return -EINVAL;
+
+ nvgrobj = calloc(1, sizeof(*nvgrobj));
+ if (!nvgrobj)
+ return -ENOMEM;
+ nvgrobj->base.channel = chan;
+ nvgrobj->base.handle = handle;
+ nvgrobj->base.grclass = class;
+ nvgrobj->base.bound = NOUVEAU_GROBJ_UNBOUND;
+ nvgrobj->base.subc = -1;
+
+ g.channel = chan->id;
+ g.handle = handle;
+ g.class = class;
+ ret = drmCommandWrite(nvdev->fd, DRM_NOUVEAU_GROBJ_ALLOC,
+ &g, sizeof(g));
+ if (ret) {
+ nouveau_grobj_free((void *)&nvgrobj);
+ return ret;
+ }
+
+ *grobj = &nvgrobj->base;
+ return 0;

```

```

+}
+
+int
+nouveau_grobj_ref(struct nouveau_channel *chan, uint32_t handle,
+ struct nouveau_grobj **grobj)
+{
+ struct nouveau_grobj_priv *nvgrobj;
+
+ if (!chan || !grobj || *grobj)
+ return -EINVAL;
+
+ nvgrobj = calloc(1, sizeof(struct nouveau_grobj_priv));
+ if (!nvgrobj)
+ return -ENOMEM;
+ nvgrobj->base.channel = chan;
+ nvgrobj->base.handle = handle;
+ nvgrobj->base.grclass = 0;
+
+ *grobj = &nvgrobj->base;
+ return 0;
+}
+
+void
+nouveau_grobj_free(struct nouveau_grobj **grobj)
+{
+ struct nouveau_device_priv *nvdev;
+ struct nouveau_channel_priv *chan;
+ struct nouveau_grobj_priv *nvgrobj;
+
+ if (!grobj || !*grobj)
+ return;
+ nvgrobj = nouveau_grobj(*grobj);
+ *grobj = NULL;
+
+
+ chan = nouveau_channel(nvgrobj->base.channel);
+ nvdev = nouveau_device(chan->base.device);
+
+ if (nvgrobj->base.grclass) {
+ struct drm_nouveau_gpuobj_free f;
+
+ FIRE_RING(&chan->base);
+ f.channel = chan->drm.channel;
+ f.handle = nvgrobj->base.handle;
+ drmCommandWrite(nvdev->fd, DRM_NOUVEAU_GPUOBJ_FREE,
+ &f, sizeof(f));
+ }
+ if (nvgrobj->base.bound != NOUVEAU_GROBJ_UNBOUND)

```

```

+ chan->base.subc[nvgrobj->base.subc].gr = NULL;
+ free(nvgrobj);
+ }
+
+void
+nouveau_grobject_autobind(struct nouveau_grobject *grobject)
+{
+ struct nouveau_channel *chan = grobject->channel;
+ struct nouveau_subchannel *subc = NULL;
+ int i;
+
+ for (i = 0; i < 8; i++) {
+ struct nouveau_subchannel *scc = &grobject->channel->subc[i];
+
+ if (scc->gr && scc->gr->bound == NOUVEAU_GROBJECT_BOUND_EXPLICIT)
+ continue;
+
+ if (!subc || scc->sequence < subc->sequence)
+ subc = scc;
+ }
+
+ if (subc->gr) {
+ subc->gr->bound = NOUVEAU_GROBJECT_UNBOUND;
+ subc->gr->subc = -1;
+ }
+
+ subc->gr = grobject;
+ subc->gr->bound = NOUVEAU_GROBJECT_BOUND;
+ subc->gr->subc = subc - &grobject->channel->subc[0];
+
+ WAIT_RING(chan, 2);
+ if (chan->device->chipset < 0xc0) {
+ OUT_RING (chan, (1 << 18) | (grobject->subc << 13));
+ OUT_RING (chan, grobject->handle);
+ } else {
+ OUT_RING (chan, (2 << 28) | (1 << 16) | (grobject->subc << 13));
+ OUT_RING (chan, grobject->grclass);
+ }
+ }
+
diff --git a/nouveau-1/nouveau_grobject.h b/nouveau-1/nouveau_grobject.h
new file mode 100644
index 0000000..51ac7d9
--- /dev/null
+++ b/nouveau-1/nouveau_grobject.h
@@ -0,0 +1,48 @@
+/*
+ * Copyright 2007 Nouveau Project

```

```

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+ */
+
+#ifndef __NOUVEAU_GROBJ_H__
+#define __NOUVEAU_GROBJ_H__
+
+#include "nouveau_channel.h"
+
+struct nouveau_grojb {
+ struct nouveau_channel *channel;
+ int grclass;
+ uint32_t handle;
+
+ enum {
+ NOUVEAU_GROBJ_UNBOUND = 0,
+ NOUVEAU_GROBJ_BOUND = 1,
+ NOUVEAU_GROBJ_BOUND_EXPLICIT = 2
+ } bound;
+ int subc;
+};
+
+int nouveau_grojb_alloc(struct nouveau_channel *, uint32_t handle,
+ int class, struct nouveau_grojb **);
+int nouveau_grojb_ref(struct nouveau_channel *, uint32_t handle,
+ struct nouveau_grojb **);
+void nouveau_grojb_free(struct nouveau_grojb **);
+void nouveau_grojb_autobind(struct nouveau_grojb *);
+
+#endif
diff --git a/nouveau-1/nouveau_notifier.c b/nouveau-1/nouveau_notifier.c
new file mode 100644

```

index 0000000..513fa63

--- /dev/null

+++ b/nouveau-1/nouveau_notifier.c

@@ -0,0 +1,148 @@

+/*

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+ */

+

+#include <stdlib.h>

+#include <errno.h>

+#include <sys/time.h>

+

+#include "nouveau_private.h"

+

+#define NOTIFIER(__v) \

+ struct nouveau_notifier_priv *nvnotify = nouveau_notifier(notifier); \

+ volatile uint32_t * __v = (uint32_t *)((char *)nvnotify->map + (id * 32))

+

+int

+nouveau_notifier_alloc(struct nouveau_channel *chan, uint32_t handle,

+ int count, struct nouveau_notifier **notifier)

+{

+ struct nouveau_notifier_priv *nvnotify;

+ int ret;

+

+ if (!chan || !notifier || *notifier)

+ return -EINVAL;

+

+ nvnotify = calloc(1, sizeof(struct nouveau_notifier_priv));

+ if (!nvnotify)

```

+ return -ENOMEM;
+ nvnotify->base.channel = chan;
+ nvnotify->base.handle = handle;
+
+ nvnotify->drm.channel = chan->id;
+ nvnotify->drm.handle = handle;
+ nvnotify->drm.size = (count * 32);
+ if ((ret = drmCommandWriteRead(nouveau_device(chan->device)->fd,
+     DRM_NOUVEAU_NOTIFIEROBJ_ALLOC,
+     &nvnotify->drm,
+     sizeof(nvnotify->drm)))) {
+     nouveau_notifier_free((void *)&nvnotify);
+     return ret;
+ }
+
+ nvnotify->map = (char *)nouveau_channel(chan)->notifier_bo->map +
+     nvnotify->drm.offset;
+ *notifier = &nvnotify->base;
+ return 0;
+}
+
+void
+nouveau_notifier_free(struct nouveau_notifier **notifier)
+{
+
+     struct nouveau_notifier_priv *nvnotify;
+     struct nouveau_channel_priv *nvchan;
+     struct nouveau_device_priv *nvdev;
+     struct drm_nouveau_gpuobj_free f;
+
+     if (!notifier || !*notifier)
+         return;
+     nvnotify = nouveau_notifier(*notifier);
+     *notifier = NULL;
+
+     nvchan = nouveau_channel(nvnotify->base.channel);
+     nvdev = nouveau_device(nvchan->base.device);
+
+     + FIRE_RING(&nvchan->base);
+
+     + f.channel = nvchan->drm.channel;
+     + f.handle = nvnotify->base.handle;
+     + drmCommandWrite(nvdev->fd, DRM_NOUVEAU_GPUOBJ_FREE, &f, sizeof(f));
+     + free(nvnotify);
+ }
+
+void
+nouveau_notifier_reset(struct nouveau_notifier *notifier, int id)

```

```

+{
+ NOTIFIER(n);
+
+ n[NV_NOTIFY_TIME_0 /4] = 0x00000000;
+ n[NV_NOTIFY_TIME_1 /4] = 0x00000000;
+ n[NV_NOTIFY_RETURN_VALUE/4] = 0x00000000;
+ n[NV_NOTIFY_STATE /4] = (NV_NOTIFY_STATE_STATUS_IN_PROCESS <<
+ NV_NOTIFY_STATE_STATUS_SHIFT);
+}
+
+uint32_t
+nouveau_notifier_status(struct nouveau_notifier *notifier, int id)
+{
+ NOTIFIER(n);
+
+ return n[NV_NOTIFY_STATE/4] >> NV_NOTIFY_STATE_STATUS_SHIFT;
+}
+
+uint32_t
+nouveau_notifier_return_val(struct nouveau_notifier *notifier, int id)
+{
+ NOTIFIER(n);
+
+ return n[NV_NOTIFY_RETURN_VALUE/4];
+}
+
+static inline double
+gettime(void)
+{
+ struct timeval tv;
+
+ gettimeofday(&tv, NULL);
+ return (double)tv.tv_sec + tv.tv_usec / 1000000.0;
+}
+
+int
+nouveau_notifier_wait_status(struct nouveau_notifier *notifier, int id,
+ uint32_t status, double timeout)
+{
+ NOTIFIER(n);
+ double time = 0, t_start = gettime();
+
+ while (time <= timeout) {
+ uint32_t v;
+
+ v = n[NV_NOTIFY_STATE/4] >> NV_NOTIFY_STATE_STATUS_SHIFT;
+ if (v == status)
+ return 0;

```

```

+
+ if (timeout)
+   time = gettime() - t_start;
+ }
+
+ return -EBUSY;
+}
+
diff --git a/nouveau-1/nouveau_notifier.h b/nouveau-1/nouveau_notifier.h
new file mode 100644
index 0000000..dbc6a3b
--- /dev/null
+++ b/nouveau-1/nouveau_notifier.h
@@ -0,0 +1,63 @@
+/*
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+ */
+
+#ifndef __NOUVEAU_NOTIFIER_H__
+#define __NOUVEAU_NOTIFIER_H__
+
+#define NV_NOTIFIER_SIZE                32
+#define NV_NOTIFY_TIME_0                0x00000000
+#define NV_NOTIFY_TIME_1                0x00000004
+#define NV_NOTIFY_RETURN_VALUE         0x00000008
+#define NV_NOTIFY_STATE                 0x0000000C
+#define NV_NOTIFY_STATE_STATUS_MASK    0xFF000000
+#define NV_NOTIFY_STATE_STATUS_SHIFT   24
+#define NV_NOTIFY_STATE_STATUS_COMPLETED 0x00
+#define NV_NOTIFY_STATE_STATUS_IN_PROCESS 0x01

```

```

+#define NV_NOTIFY_STATE_ERROR_CODE_MASK          0x0000FFFF
+#define NV_NOTIFY_STATE_ERROR_CODE_SHIFT        0
+
+struct nouveau_notifier {
+ struct nouveau_channel *channel;
+ uint32_t handle;
+};
+
+int
+nouveau_notifier_alloc(struct nouveau_channel *, uint32_t handle, int count,
+ struct nouveau_notifier **);
+
+void
+nouveau_notifier_free(struct nouveau_notifier **);
+
+void
+nouveau_notifier_reset(struct nouveau_notifier *, int id);
+
+uint32_t
+nouveau_notifier_status(struct nouveau_notifier *, int id);
+
+uint32_t
+nouveau_notifier_return_val(struct nouveau_notifier *, int id);
+
+int
+nouveau_notifier_wait_status(struct nouveau_notifier *, int id, uint32_t status,
+ double timeout);
+
+#endif
diff --git a/nouveau-1/nouveau_private.h b/nouveau-1/nouveau_private.h
new file mode 100644
index 0000000..124fe87
--- /dev/null
+++ b/nouveau-1/nouveau_private.h
@@ -0,0 +1,136 @@
+/*
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+ */

+

+#ifndef __NOUVEAU_PRIVATE_H__

+#define __NOUVEAU_PRIVATE_H__

+

+#include <stdint.h>

+#include <xf86drm.h>

+#include <nouveau_drm.h>

+

+#include "nouveau_drmif.h"

+#include "nouveau_device.h"

+#include "nouveau_channel.h"

+#include "nouveau_grobj.h"

+#include "nouveau_notifier.h"

+#include "nouveau_bo.h"

+#include "nouveau_resource.h"

+#include "nouveau_pushbuf.h"

+#include "nouveau_reloc.h"

+

+#define CALPB_BUFFERS 3

+

+struct nouveau_pushbuf_priv {

+ uint32_t cal_suffix0;

+ uint32_t cal_suffix1;

+ struct nouveau_bo *buffer[CALPB_BUFFERS];

+ int current;

+ int current_offset;

+

+ unsigned *pushbuf;

+ unsigned size;

+

+ uint32_t *marker;

+ unsigned marker_offset;

+ unsigned marker_relocs;

+ unsigned marker_push;

+

+ struct drm_nouveau_gem_pushbuf_bo *buffers;

+ unsigned nr_buffers;

+ struct drm_nouveau_gem_pushbuf_reloc *relocs;

+ unsigned nr_relocs;

+ struct drm_nouveau_gem_pushbuf_push push[NOUVEAU_GEM_MAX_PUSH];

```

+ unsigned nr_push;
+};
+#define nouveau_pushbuf(n) ((struct nouveau_pushbuf_priv *)(n))
+
+int
+nouveau_pushbuf_init(struct nouveau_channel *, int buf_size);
+void
+nouveau_pushbuf_fini(struct nouveau_channel *);
+
+struct nouveau_channel_priv {
+ struct nouveau_channel base;
+
+ struct drm_nouveau_channel_alloc drm;
+
+ struct nouveau_bo *notifier_bo;
+
+ struct nouveau_pushbuf_priv pb;
+};
+#define nouveau_channel(n) ((struct nouveau_channel_priv *)(n))
+
+struct nouveau_grobj_priv {
+ struct nouveau_grobj base;
+};
+#define nouveau_grobj(n) ((struct nouveau_grobj_priv *)(n))
+
+struct nouveau_notifier_priv {
+ struct nouveau_notifier base;
+
+ struct drm_nouveau_notifierobj_alloc drm;
+ volatile void *map;
+};
+#define nouveau_notifier(n) ((struct nouveau_notifier_priv *)(n))
+
+struct nouveau_bo_priv {
+ struct nouveau_bo base;
+ int refcount;
+
+ /* Buffer configuration + usage hints */
+ unsigned flags;
+ unsigned size;
+ unsigned align;
+ int user;
+
+ /* Tracking */
+ struct drm_nouveau_gem_pushbuf_bo *pending;
+ struct nouveau_channel *pending_channel;
+ int pending_refcnt;
+ int write_marker;

```

```

+
+ /* Userspace object */
+ void *systemem;
+
+ /* Kernel object */
+ uint32_t global_handle;
+ drm_handle_t handle;
+ uint64_t map_handle;
+ int map_refcnt;
+ void *map;
+
+ /* Last known information from kernel on buffer status */
+ uint64_t offset;
+ uint32_t domain;
+};
+#define nouveau_bo(n) ((struct nouveau_bo_priv *)(n))
+
+int
+nouveau_bo_init(struct nouveau_device *);
+
+void
+nouveau_bo_takedown(struct nouveau_device *);
+
+struct drm_nouveau_gem_pushbuf_bo *
+nouveau_bo_emit_buffer(struct nouveau_channel *, struct nouveau_bo *);
+
+#endif
diff --git a/nouveau-1/nouveau_pushbuf.c b/nouveau-1/nouveau_pushbuf.c
new file mode 100644
index 0000000..59f60d9
--- /dev/null
+++ b/nouveau-1/nouveau_pushbuf.c
@@ -0,0 +1,344 @@
+/*
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```

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```

```
+ */
```

```
+
```

```
+#include <stdio.h>
```

```
+#include <stdlib.h>
```

```
+#include <errno.h>
```

```
+#include <assert.h>
```

```
+
```

```
+#include "nouveau_private.h"
```

```
+
```

```
+#define PB_BUFMGR_DWORDS (4096 / 2)
```

```
+#define PB_MIN_USER_DWORDS 2048
```

```
+
```

```
+static int
```

```
+nouveau_pushbuf_space(struct nouveau_channel *chan, unsigned min)
```

```
+{
```

```
+ struct nouveau_channel_priv *nvchan = nouveau_channel(chan);
```

```
+ struct nouveau_pushbuf_priv *nvpb = &nvchan->pb;
```

```
+ struct nouveau_bo *bo;
```

```
+ int ret;
```

```
+
```

```
+ if (min < PB_MIN_USER_DWORDS)
```

```
+ min = PB_MIN_USER_DWORDS;
```

```
+
```

```
+ nvpb->current_offset = chan->cur - nvpb->pushbuf;
```

```
+ if (chan->cur + min + 2 <= chan->end)
```

```
+ return 0;
```

```
+
```

```
+ nvpb->current++;
```

```
+ if (nvpb->current == CALPB_BUFFERS)
```

```
+ nvpb->current = 0;
```

```
+ bo = nvpb->buffer[nvpb->current];
```

```
+
```

```
+ ret = nouveau_bo_map(bo, NOUVEAU_BO_WR);
```

```
+ if (ret)
```

```
+ return ret;
```

```
+
```

```
+ nvpb->size = (bo->size - 8) / 4;
```

```
+ nvpb->pushbuf = bo->map;
```

```
+ nvpb->current_offset = 0;
```

```
+
```

```
+ chan->cur = nvpb->pushbuf;
```

```
+ chan->end = nvpb->pushbuf + nvpb->size;
```

```
+
```

```

+ nouveau_bo_unmap(bo);
+ return 0;
+ }
+
+static void
+nouveau_pushbuf_fini_call(struct nouveau_channel *chan)
+{
+ struct nouveau_channel_priv *nvchan = nouveau_channel(chan);
+ struct nouveau_pushbuf_priv *nvpb = &nvchan->pb;
+ int i;
+
+ for (i = 0; i < CALPB_BUFFERS; i++)
+ nouveau_bo_ref(NULL, &nvpb->buffer[i]);
+ nvpb->pushbuf = NULL;
+ }
+
+static int
+nouveau_pushbuf_init_call(struct nouveau_channel *chan, int buf_size)
+{
+ struct drm_nouveau_gem_pushbuf req;
+ struct nouveau_channel_priv *nvchan = nouveau_channel(chan);
+ struct nouveau_pushbuf_priv *nvpb = &nvchan->pb;
+ struct nouveau_device *dev = chan->device;
+ uint32_t flags = 0;
+ int i, ret;
+
+ if (nvchan->drm.pushbuf_domains & NOUVEAU_GEM_DOMAIN_GART)
+ flags |= NOUVEAU_BO_GART;
+ else
+ flags |= NOUVEAU_BO_VRAM;
+
+ req.channel = chan->id;
+ req.nr_push = 0;
+ ret = drmCommandWriteRead(nouveau_device(dev)->fd,
+ DRM_NOUVEAU_GEM_PUSHBUF, &req, sizeof(req));
+ if (ret)
+ return ret;
+
+ for (i = 0; i < CALPB_BUFFERS; i++) {
+ ret = nouveau_bo_new(dev, flags | NOUVEAU_BO_MAP,
+ 0, buf_size, &nvpb->buffer[i]);
+ if (ret) {
+ nouveau_pushbuf_fini_call(chan);
+ return ret;
+ }
+ }
+
+ nvpb->cal_suffix0 = req.suffix0;

```

```

+ nvpb->cal_suffix1 = req.suffix1;
+ return 0;
+ }
+
+int
+nouveau_pushbuf_init(struct nouveau_channel *chan, int buf_size)
+{
+ struct nouveau_channel_priv *nvchan = nouveau_channel(chan);
+ struct nouveau_pushbuf_priv *nvpb = &nvchan->pb;
+ int ret;
+
+ ret = nouveau_pushbuf_init_call(chan, buf_size);
+ if (ret)
+ return ret;
+
+ ret = nouveau_pushbuf_space(chan, 0);
+ if (ret)
+ return ret;
+
+ nvpb->buffers = calloc(NOUVEAU_GEM_MAX_BUFFERS,
+ sizeof(struct drm_nouveau_gem_pushbuf_bo));
+ nvpb->relocs = calloc(NOUVEAU_GEM_MAX_RELOCS,
+ sizeof(struct drm_nouveau_gem_pushbuf_reloc));
+ return 0;
+ }
+
+void
+nouveau_pushbuf_fini(struct nouveau_channel *chan)
+{
+ struct nouveau_channel_priv *nvchan = nouveau_channel(chan);
+ struct nouveau_pushbuf_priv *nvpb = &nvchan->pb;
+ nouveau_pushbuf_fini_call(chan);
+ free(nvpb->buffers);
+ free(nvpb->relocs);
+ }
+
+static int
+nouveau_pushbuf_bo_add(struct nouveau_channel *chan, struct nouveau_bo *bo,
+ unsigned offset, unsigned length)
+{
+ struct nouveau_channel_priv *nvchan = nouveau_channel(chan);
+ struct nouveau_pushbuf_priv *nvpb = &nvchan->pb;
+ struct drm_nouveau_gem_pushbuf_push *p = &nvpb->push[nvpb->nr_push++];
+ struct drm_nouveau_gem_pushbuf_bo *pbbo;
+ struct nouveau_bo_priv *nvbo = nouveau_bo(bo);
+
+ pbbo = nouveau_bo_emit_buffer(chan, bo);
+ if (!pbbo)

```

```

+ return -ENOMEM;
+ pbbo->valid_domains &= nvchan->drm.pushbuf_domains;
+ pbbo->read_domains |= nvchan->drm.pushbuf_domains;
+ nvbo->pending_refcnt++;
+
+ p->bo_index = pbbo - nvpb->buffers;
+ p->offset = offset;
+ p->length = length;
+ return 0;
+}
+
+int
+nouveau_pushbuf_submit(struct nouveau_channel *chan, struct nouveau_bo *bo,
+    unsigned offset, unsigned length)
+{
+ struct nouveau_pushbuf_priv *nvpb = &nouveau_channel(chan)->pb;
+ int ret, len;
+
+ if ((AVAIL_RING(chan) + nvpb->current_offset) != nvpb->size) {
+ if (nvpb->cal_suffix0 || nvpb->cal_suffix1) {
+ *(chan->cur++) = nvpb->cal_suffix0;
+ *(chan->cur++) = nvpb->cal_suffix1;
+ }
+
+ len = (chan->cur - nvpb->pushbuf) - nvpb->current_offset;
+
+ ret = nouveau_pushbuf_bo_add(chan, nvpb->buffer[nvpb->current],
+    nvpb->current_offset * 4, len * 4);
+ if (ret)
+ return ret;
+
+ nvpb->current_offset += len;
+ }
+
+ return bo ? nouveau_pushbuf_bo_add(chan, bo, offset, length) : 0;
+}
+
+static void
+nouveau_pushbuf_bo_unref(struct nouveau_pushbuf_priv *nvpb, int index)
+{
+ struct drm_nouveau_gem_pushbuf_bo *pbbo = &nvpb->buffers[index];
+ struct nouveau_bo *bo = (void *) (unsigned long) pbbo->user_priv;
+ struct nouveau_bo_priv *nvbo = nouveau_bo(bo);
+
+ if (--nvbo->pending_refcnt)
+ return;
+
+ if (pbbo->presumed.valid == 0) {

```

```

+ nvbo->domain = pbbo->presumed.domain;
+ nvbo->offset = pbbo->presumed.offset;
+ }
+
+ nvbo->pending = NULL;
+ nouveau_bo_ref(NULL, &bo);
+
+ /* we only ever remove from the tail of the pending lists,
+  * so this is safe.
+  */
+ nvpb->nr_buffers--;
+}
+
+int
+nouveau_pushbuf_flush(struct nouveau_channel *chan, unsigned min)
+{
+ struct nouveau_device_priv *nvdev = nouveau_device(chan->device);
+ struct nouveau_channel_priv *nvchan = nouveau_channel(chan);
+ struct nouveau_pushbuf_priv *nvpb = &nvchan->pb;
+ struct drm_nouveau_gem_pushbuf req;
+ unsigned i;
+ int ret;
+
+ ret = nouveau_pushbuf_submit(chan, NULL, 0, 0);
+ if (ret)
+ return ret;
+
+ if (!nvpb->nr_push)
+ return 0;
+
+ req.channel = chan->id;
+ req.nr_push = nvpb->nr_push;
+ req.push = (uint64_t)(unsigned long)nvpb->push;
+ req.nr_buffers = nvpb->nr_buffers;
+ req.buffers = (uint64_t)(unsigned long)nvpb->buffers;
+ req.nr_relocs = nvpb->nr_relocs;
+ req.relocs = (uint64_t)(unsigned long)nvpb->relocs;
+ req.suffix0 = nvpb->cal_suffix0;
+ req.suffix1 = nvpb->cal_suffix1;
+
+ do {
+ ret = drmCommandWriteRead(nvdev->fd, DRM_NOUVEAU_GEM_PUSHBUF,
+ &req, sizeof(req));
+ } while (ret == -EAGAIN);
+ nvpb->cal_suffix0 = req.suffix0;
+ nvpb->cal_suffix1 = req.suffix1;
+ nvdev->base.vm_vram_size = req.vram_available;
+ nvdev->base.vm_gart_size = req.gart_available;

```

```

+
+ /* Update presumed offset/domain for any buffers that moved.
+ * Dereference all buffers on validate list
+ */
+ for (i = 0; i < nvpb->nr_relocs; i++) {
+ nouveau_pushbuf_bo_unref(nvpb, nvpb->relocs[i].bo_index);
+ nouveau_pushbuf_bo_unref(nvpb, nvpb->relocs[i].reloc_bo_index);
+ }
+
+ for (i = 0; i < nvpb->nr_push; i++)
+ nouveau_pushbuf_bo_unref(nvpb, nvpb->push[i].bo_index);
+
+ nvpb->nr_buffers = 0;
+ nvpb->nr_relocs = 0;
+ nvpb->nr_push = 0;
+
+ /* Allocate space for next push buffer */
+ if (nouveau_pushbuf_space(chan, min))
+ assert(0);
+
+ if (chan->flush_notify)
+ chan->flush_notify(chan);
+
+ nvpb->marker = NULL;
+ return ret;
+}
+
+int
+nouveau_pushbuf_marker_emit(struct nouveau_channel *chan,
+ unsigned wait_dwords, unsigned wait_relocs)
+{
+ struct nouveau_pushbuf_priv *nvpb = &nouveau_channel(chan)->pb;
+
+ if (AVAIL_RING(chan) < wait_dwords)
+ return nouveau_pushbuf_flush(chan, wait_dwords);
+
+ if (nvpb->nr_relocs + wait_relocs >= NOUVEAU_GEM_MAX_RELOCS)
+ return nouveau_pushbuf_flush(chan, wait_dwords);
+
+ nvpb->marker = chan->cur;
+ nvpb->marker_offset = nvpb->current_offset;
+ nvpb->marker_push = nvpb->nr_push;
+ nvpb->marker_relocs = nvpb->nr_relocs;
+ return 0;
+}
+
+void
+nouveau_pushbuf_marker_undo(struct nouveau_channel *chan)

```

```

+{
+ struct nouveau_pushbuf_priv *nvpb = &nouveau_channel(chan)->pb;
+ unsigned i;
+
+
+ if (!nvpb->marker)
+ return;
+
+
+ /* undo any relocs/buffers added to the list since last marker */
+ for (i = nvpb->marker_relocs; i < nvpb->nr_relocs; i++) {
+ nouveau_pushbuf_bo_unref(nvpb, nvpb->relocs[i].bo_index);
+ nouveau_pushbuf_bo_unref(nvpb, nvpb->relocs[i].reloc_bo_index);
+ }
+ nvpb->nr_relocs = nvpb->marker_relocs;
+
+
+ for (i = nvpb->marker_push; i < nvpb->nr_push; i++)
+ nouveau_pushbuf_bo_unref(nvpb, nvpb->push[i].bo_index);
+ nvpb->nr_push = nvpb->marker_push;
+
+
+ /* reset pushbuf back to last marker */
+ chan->cur = nvpb->marker;
+ nvpb->current_offset = nvpb->marker_offset;
+ nvpb->marker = NULL;
+ }
+
+
+int
+nouveau_pushbuf_emit_reloc(struct nouveau_channel *chan, void *ptr,
+ struct nouveau_bo *bo, uint32_t data, uint32_t data2,
+ uint32_t flags, uint32_t vor, uint32_t tor)
+{
+ struct nouveau_pushbuf_priv *nvpb = &nouveau_channel(chan)->pb;
+ int ret;
+
+
+ ret = nouveau_reloc_emit(chan, nvpb->buffer[nvpb->current],
+ (char *)ptr - (char *)nvpb->pushbuf, ptr,
+ bo, data, data2, flags, vor, tor);
+ if (ret)
+ return ret;
+
+
+ return 0;
+ }
+
diff --git a/nouveau-1/nouveau_pushbuf.h b/nouveau-1/nouveau_pushbuf.h
new file mode 100644
index 0000000..2a98789
--- /dev/null
+++ b/nouveau-1/nouveau_pushbuf.h
@@ -0,0 +1,162 @@
+/*

```

```

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+ * SOFTWARE.
+ */
+
+#ifndef __NOUVEAU_PUSHBUF_H__
+#define __NOUVEAU_PUSHBUF_H__
+
+#include <assert.h>
+#include <string.h>
+
+#include "nouveau_bo.h"
+#include "nouveau_grobj.h"
+
+int
+nouveau_pushbuf_flush(struct nouveau_channel *, unsigned min);
+
+int
+nouveau_pushbuf_marker_emit(struct nouveau_channel *chan,
+ unsigned wait_dwords, unsigned wait_relocs);
+
+void
+nouveau_pushbuf_marker_undo(struct nouveau_channel *chan);
+
+int
+nouveau_pushbuf_emit_reloc(struct nouveau_channel *, void *ptr,
+ struct nouveau_bo *, uint32_t data, uint32_t data2,
+ uint32_t flags, uint32_t vor, uint32_t tor);
+
+int
+nouveau_pushbuf_submit(struct nouveau_channel *chan, struct nouveau_bo *bo,
+ unsigned offset, unsigned length);

```

```

+
+/* Push buffer access macros */
+static __inline__ int
+MARK_RING(struct nouveau_channel *chan, unsigned dwords, unsigned relocs)
+{
+ return nouveau_pushbuf_marker_emit(chan, dwords, relocs);
+}
+
+
+static __inline__ void
+MARK_UNDO(struct nouveau_channel *chan)
+{
+ nouveau_pushbuf_marker_undo(chan);
+}
+
+
+static __inline__ void
+OUT_RING(struct nouveau_channel *chan, unsigned data)
+{
+ *(chan->cur++) = (data);
+}
+
+
+static __inline__ void
+OUT_RINGp(struct nouveau_channel *chan, const void *data, unsigned size)
+{
+ memcpy(chan->cur, data, size * 4);
+ chan->cur += size;
+}
+
+
+static __inline__ void
+OUT_RINGf(struct nouveau_channel *chan, float f)
+{
+ union { uint32_t i; float f; } c;
+ c.f = f;
+ OUT_RING(chan, c.i);
+}
+
+
+static __inline__ unsigned
+AVAIL_RING(struct nouveau_channel *chan)
+{
+ return chan->end - chan->cur;
+}
+
+
+static __inline__ void
+WAIT_RING(struct nouveau_channel *chan, unsigned size)
+{
+ if (chan->cur + size > chan->end)
+ nouveau_pushbuf_flush(chan, size);
+}
+
+

```

```

+static __inline__ void
+FIRE_RING(struct nouveau_channel *chan)
+{
+ nouveau_pushbuf_flush(chan, 0);
+}
+
+static __inline__ int
+OUT_RELOC(struct nouveau_channel *chan, struct nouveau_bo *bo,
+ unsigned data, unsigned flags, unsigned vor, unsigned tor)
+{
+ return nouveau_pushbuf_emit_reloc(chan, chan->cur++, bo,
+ data, 0, flags, vor, tor);
+}
+
+static __inline__ int
+OUT_RELOC2(struct nouveau_channel *chan, struct nouveau_bo *bo,
+ unsigned data, unsigned data2, unsigned flags,
+ unsigned vor, unsigned tor)
+{
+ return nouveau_pushbuf_emit_reloc(chan, chan->cur++, bo,
+ data, data2, flags, vor, tor);
+}
+
+/* Raw data + flags depending on FB/TT buffer */
+static __inline__ int
+OUT_RELOCd(struct nouveau_channel *chan, struct nouveau_bo *bo,
+ unsigned data, unsigned flags, unsigned vor, unsigned tor)
+{
+ return OUT_RELOC(chan, bo, data, flags | NOUVEAU_BO_OR, vor, tor);
+}
+
+/* FB/TT object handle */
+static __inline__ int
+OUT_RELOCo(struct nouveau_channel *chan, struct nouveau_bo *bo,
+ unsigned flags)
+{
+ return OUT_RELOC(chan, bo, 0, flags | NOUVEAU_BO_OR,
+ chan->vram->handle, chan->gart->handle);
+}
+
+/* Low 32-bits of offset */
+static __inline__ int
+OUT_RELOCi(struct nouveau_channel *chan, struct nouveau_bo *bo,
+ unsigned delta, unsigned flags)
+{
+ return OUT_RELOC(chan, bo, delta, flags | NOUVEAU_BO_LOW, 0, 0);
+}
+

```

```

+/* Low 32-bits of offset + GPU linear access range info */
+static __inline__ int
+OUT_RELOCr(struct nouveau_channel *chan, struct nouveau_bo *bo,
+ unsigned delta, unsigned size, unsigned flags)
+{
+ return OUT_RELOC2(chan, bo, delta, size, flags | NOUVEAU_BO_LOW, 0, 0);
+}
+
+/* High 32-bits of offset */
+static __inline__ int
+OUT_RELOCc(struct nouveau_channel *chan, struct nouveau_bo *bo,
+ unsigned delta, unsigned flags)
+{
+ return OUT_RELOC(chan, bo, delta, flags | NOUVEAU_BO_HIGH, 0, 0);
+}
+
+#endif
diff --git a/nouveau-1/nouveau_reloc.c b/nouveau-1/nouveau_reloc.c
new file mode 100644
index 0000000..cd219db
--- /dev/null
+++ b/nouveau-1/nouveau_reloc.c
@@ -0,0 +1,154 @@
+/*
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+ * SOFTWARE.
+ */
+
+#include <stdio.h>
+#include <stdlib.h>
+#include <errno.h>

```

```

+#include <assert.h>
+
+#include "nouveau_private.h"
+
+static uint32_t
+nouveau_reloc_calc(struct drm_nouveau_gem_pushbuf_bo *pbbo,
+ struct drm_nouveau_gem_pushbuf_reloc *r)
+{
+ uint32_t push = 0;
+
+ if (r->flags & NOUVEAU_GEM_RELOC_LOW)
+ push = (pbbo->presumed.offset + r->data);
+ else
+ if (r->flags & NOUVEAU_GEM_RELOC_HIGH)
+ push = (pbbo->presumed.offset + r->data) >> 32;
+ else
+ push = r->data;
+
+ if (r->flags & NOUVEAU_GEM_RELOC_OR) {
+ if (pbbo->presumed.domain & NOUVEAU_GEM_DOMAIN_VRAM)
+ push |= r->vor;
+ else
+ push |= r->tor;
+ }
+
+ return push;
+}
+
+int
+nouveau_reloc_emit(struct nouveau_channel *chan, struct nouveau_bo *reloc_bo,
+ uint32_t reloc_offset, uint32_t *reloc_ptr,
+ struct nouveau_bo *bo, uint32_t data, uint32_t data2,
+ uint32_t flags, uint32_t vor, uint32_t tor)
+{
+ struct nouveau_pushbuf_priv *nvpb = &nouveau_channel(chan)->pb;
+ struct nouveau_bo_priv *nvbo = nouveau_bo(bo);
+ struct drm_nouveau_gem_pushbuf_reloc *r;
+ struct drm_nouveau_gem_pushbuf_bo *pbbo, *rpbbo;
+ uint32_t domains = 0;
+
+ if (nvpb->nr_relocs >= NOUVEAU_GEM_MAX_RELOCS) {
+ fprintf(stderr, "too many relocs!!\n");
+ return -ENOMEM;
+ }
+
+ if (nvbo->user && (flags & NOUVEAU_BO_WR)) {
+ fprintf(stderr, "write to user buffer!!\n");
+ return -EINVAL;
+ }

```

```

+ }
+
+ /* We're about to reloc a user buffer, better make sure we don't cause
+ * a double migration.
+ */
+ if (!(nvbo->flags & (NOUVEAU_BO_GART | NOUVEAU_BO_VRAM)))
+ nvbo->flags |= (flags & (NOUVEAU_BO_GART | NOUVEAU_BO_VRAM));
+
+ /* add buffer to validation list */
+ pbbo = nouveau_bo_emit_buffer(chan, bo);
+ if (!pbbo) {
+ fprintf(stderr, "buffer emit fail :(\n");
+ return -ENOMEM;
+ }
+ nouveau_bo(bo)->pending_refcnt++;
+
+ if (flags & (NOUVEAU_BO_VRAM | NOUVEAU_BO_GART)) {
+ if (flags & NOUVEAU_BO_VRAM)
+ domains |= NOUVEAU_GEM_DOMAIN_VRAM;
+ if (flags & NOUVEAU_BO_GART)
+ domains |= NOUVEAU_GEM_DOMAIN_GART;
+ } else
+ domains |= nvbo->domain;
+
+ if (!(pbbo->valid_domains & domains)) {
+ fprintf(stderr, "no valid domains remain!\n");
+ return -EINVAL;
+ }
+ pbbo->valid_domains &= domains;
+
+ assert(flags & NOUVEAU_BO_RDWR);
+ if (flags & NOUVEAU_BO_RD) {
+ pbbo->read_domains |= domains;
+ }
+ if (flags & NOUVEAU_BO_WR) {
+ pbbo->write_domains |= domains;
+ nvbo->write_marker = 1;
+ }
+
+ /* nvc0 gallium driver uses reloc_emit() with NULL target buffer
+ * to inform bufmgr of a buffer's use - however, we need something
+ * to track, so create a reloc for now, and hope it never triggers
+ * (it shouldn't, constant virtual address..)
+ */
+ if (!reloc_bo) {
+ reloc_bo = nvpb->buffer[nvpb->current];
+ reloc_offset = 0;
+ reloc_ptr = NULL;

```

```

+ }
+
+ /* add reloc target bo to validation list, and create the reloc */
+ rpbbo = nouveau_bo_emit_buffer(chan, reloc_bo);
+ if (!rpbbo)
+ return -ENOMEM;
+ nouveau_bo(reloc_bo)->pending_refcnt++;
+
+ r = nvpb->relocs + nvpb->nr_relocs++;
+ r->reloc_bo_index = rpbbo - nvpb->buffers;
+ r->reloc_bo_offset = reloc_offset;
+ r->bo_index = pbbo - nvpb->buffers;
+ r->flags = 0;
+ if (flags & NOUVEAU_BO_LOW)
+ r->flags |= NOUVEAU_GEM_RELOC_LOW;
+ if (flags & NOUVEAU_BO_HIGH)
+ r->flags |= NOUVEAU_GEM_RELOC_HIGH;
+ if (flags & NOUVEAU_BO_OR)
+ r->flags |= NOUVEAU_GEM_RELOC_OR;
+ r->data = data;
+ r->vor = vor;
+ r->tor = tor;
+
+ if (reloc_ptr) {
+ if (flags & NOUVEAU_BO_DUMMY)
+ *reloc_ptr = 0;
+ else
+ *reloc_ptr = nouveau_reloc_calc(pbbo, r);
+ }
+
+ return 0;
+}
+
diff --git a/nouveau-1/nouveau_reloc.h b/nouveau-1/nouveau_reloc.h
new file mode 100644
index 0000000..24ddb52
--- /dev/null
+++ b/nouveau-1/nouveau_reloc.h
@@ -0,0 +1,32 @@
+/*
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+ * SOFTWARE.
+ */
+
+#ifndef __NOUVEAU_RELOC_H__
+#define __NOUVEAU_RELOC_H__
+
+int
+nouveau_reloc_emit(struct nouveau_channel *chan, struct nouveau_bo *reloc_bo,
+ uint32_t reloc_offset, uint32_t *reloc_ptr,
+ struct nouveau_bo *bo, uint32_t data, uint32_t data2,
+ uint32_t flags, uint32_t vor, uint32_t tor);
+
+#endif
diff --git a/nouveau-1/nouveau_resource.c b/nouveau-1/nouveau_resource.c
new file mode 100644
index 0000000..7acaf7d
--- /dev/null
+++ b/nouveau-1/nouveau_resource.c
@@ -0,0 +1,124 @@
+/*
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```

```

+ * SOFTWARE.
+ */
+
+#include <stdlib.h>
+#include <errno.h>
+
+#include "nouveau_private.h"
+
+int
+nouveau_resource_init(struct nouveau_resource **heap,
+    unsigned start, unsigned size)
+{
+ struct nouveau_resource *r;
+
+ r = calloc(1, sizeof(struct nouveau_resource));
+ if (!r)
+ return 1;
+
+ r->start = start;
+ r->size = size;
+ *heap = r;
+ return 0;
+}
+
+void
+nouveau_resource_destroy(struct nouveau_resource **heap)
+{
+ if (!*heap)
+ return;
+ free(*heap);
+ *heap = NULL;
+}
+
+int
+nouveau_resource_alloc(struct nouveau_resource *heap, unsigned size, void *priv,
+    struct nouveau_resource **res)
+{
+ struct nouveau_resource *r;
+
+ if (!heap || !size || !res || *res)
+ return 1;
+
+ while (heap) {
+ if (!heap->in_use && heap->size >= size) {
+ r = calloc(1, sizeof(struct nouveau_resource));
+ if (!r)
+ return 1;
+ }
+ }
+ }

```

```

+ r->start = (heap->start + heap->size) - size;
+ r->size = size;
+ r->in_use = 1;
+ r->priv = priv;
+
+ heap->size -= size;
+
+ r->next = heap->next;
+ if (heap->next)
+ heap->next->prev = r;
+ r->prev = heap;
+ heap->next = r;
+
+ *res = r;
+ return 0;
+ }
+
+ heap = heap->next;
+ }
+
+ return 1;
+}
+
+void
+nouveau_resource_free(struct nouveau_resource **res)
+{
+ struct nouveau_resource *r;
+
+ if (!res || !*res)
+ return;
+ r = *res;
+ *res = NULL;
+
+ r->in_use = 0;
+
+ if (r->next && !r->next->in_use) {
+ struct nouveau_resource *new = r->next;
+
+ new->prev = r->prev;
+ if (r->prev)
+ r->prev->next = new;
+ new->size += r->size;
+ new->start = r->start;
+
+ free(r);
+ r = new;
+ }
+

```

```

+ if (r->prev && !r->prev->in_use) {
+   r->prev->next = r->next;
+   if (r->next)
+     r->next->prev = r->prev;
+   r->prev->size += r->size;
+   free(r);
+ }
+
+}
diff --git a/nouveau-1/nouveau_resource.h b/nouveau-1/nouveau_resource.h
new file mode 100644
index 0000000..b760dfb
--- /dev/null
+++ b/nouveau-1/nouveau_resource.h
@@ -0,0 +1,51 @@
+/*
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+ * SOFTWARE.
+ */
+
+#ifndef __NOUVEAU_RESOURCE_H__
+#define __NOUVEAU_RESOURCE_H__
+
+struct nouveau_resource {
+  struct nouveau_resource *prev;
+  struct nouveau_resource *next;
+
+  int in_use;
+  void *priv;
+
+  unsigned int start;

```

```

+ unsigned int size;
+};
+
+int
+nouveau_resource_init(struct nouveau_resource **heap, unsigned start,
+    unsigned size);
+
+void
+nouveau_resource_destroy(struct nouveau_resource **heap);
+
+int
+nouveau_resource_alloc(struct nouveau_resource *heap, unsigned size, void *priv,
+    struct nouveau_resource **);
+
+void
+nouveau_resource_free(struct nouveau_resource **);
+
+#endif
diff --git a/nouveau-1/nv04_pushbuf.h b/nouveau-1/nv04_pushbuf.h
new file mode 100644
index 0000000..586b284
--- /dev/null
+++ b/nouveau-1/nv04_pushbuf.h
@@ -0,0 +1,66 @@
+/*
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+ */
+#ifndef __NV04_PUSHBUF_H__
+#define __NV04_PUSHBUF_H__

```

```

+
+#include "nouveau_pushbuf.h"
+
+static __inline__ void
+BEGIN_RING(struct nouveau_channel *chan, struct nouveau_grobject *gr,
+ unsigned mthd, unsigned size)
+{
+ if (gr->bound == NOUVEAU_GROBJECT_UNBOUND)
+ nouveau_grobject_autobind(gr);
+ chan->subc[gr->subc].sequence = chan->subc_sequence++;
+
+ WAIT_RING(chan, size + 1);
+ OUT_RING(chan, (gr->subc << 13) | (size << 18) | mthd);
+}
+
+/* non-incrementing BEGIN_RING */
+static __inline__ void
+BEGIN_RING_NI(struct nouveau_channel *chan, struct nouveau_grobject *gr,
+ unsigned mthd, unsigned size)
+{
+ BEGIN_RING(chan, gr, mthd | 0x40000000, size);
+}
+
+static __inline__ void
+BIND_RING(struct nouveau_channel *chan, struct nouveau_grobject *gr, unsigned sc)
+{
+ struct nouveau_subchannel *subc = &gr->channel->subc[sc];
+
+ if (subc->gr) {
+ if (subc->gr->bound == NOUVEAU_GROBJECT_BOUND_EXPLICIT)
+ assert(0);
+ subc->gr->bound = NOUVEAU_GROBJECT_UNBOUND;
+ }
+ subc->gr = gr;
+ subc->gr->subc = sc;
+ subc->gr->bound = NOUVEAU_GROBJECT_BOUND_EXPLICIT;
+
+ BEGIN_RING(chan, gr, 0x0000, 1);
+ OUT_RING (chan, gr->handle);
+}
+
+#endif
diff --git a/nouveau-1/nvc0_pushbuf.h b/nouveau-1/nvc0_pushbuf.h
new file mode 100644
index 0000000..40dc7e6
--- /dev/null
+++ b/nouveau-1/nvc0_pushbuf.h
@@ -0,0 +1,92 @@

```

```

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+ */
+
+#ifndef __NVC0_PUSHBUF_H__
+#define __NVC0_PUSHBUF_H__
+
+#include "nouveau_pushbuf.h"
+
+#define SUBC_BIND(chan, gr) do {
+ if (gr->bound == NOUVEAU_GROBJ_UNBOUND)
+ nouveau_grobj_autobind(gr);
+ chan->subc[gr->subc].sequence = chan->subc_sequence++;
+} while (0)
+
+/* incremental methods */
+static __inline__ void
+BEGIN_RING(struct nouveau_channel *chan, struct nouveau_grobj *gr,
+ unsigned mthd, unsigned size)
+{
+ SUBC_BIND(chan, gr);
+ WAIT_RING(chan, size + 1);
+ OUT_RING (chan, (0x2 << 28) | (size << 16) | (gr->subc << 13) | (mthd >> 2));
+}
+
+/* non-incremental */
+static __inline__ void
+BEGIN_RING_NI(struct nouveau_channel *chan, struct nouveau_grobj *gr,
+ unsigned mthd, unsigned size)
+{

```

```

+ SUBC_BIND(chan, gr);
+ WAIT_RING(chan, size + 1);
+ OUT_RING (chan, (0x6 << 28) | (size << 16) | (gr->subc << 13) | (mthd >> 2));
+}
+
+/* increment-once */
+static __inline__ void
+BEGIN_RING_1I(struct nouveau_channel *chan, struct nouveau_grobj *gr,
+ unsigned mthd, unsigned size)
+{
+ SUBC_BIND(chan, gr);
+ WAIT_RING(chan, size + 1);
+ OUT_RING (chan, (0xa << 28) | (size << 16) | (gr->subc << 13) | (mthd >> 2));
+}
+
+/* inline-data */
+static __inline__ void
+IMMED_RING(struct nouveau_channel *chan, struct nouveau_grobj *gr,
+ unsigned mthd, unsigned data)
+{
+ SUBC_BIND(chan, gr);
+ WAIT_RING(chan, 1);
+ OUT_RING (chan, (0x8 << 28) | (data << 16) | (gr->subc << 13) | (mthd >> 2));
+}
+
+static __inline__ void
+BIND_RING(struct nouveau_channel *chan, struct nouveau_grobj *gr, unsigned sc)
+{
+ struct nouveau_subchannel *subc = &gr->channel->subc[sc];
+
+ if (subc->gr) {
+ if (subc->gr->bound == NOUVEAU_GROBJ_BOUND_EXPLICIT)
+ assert(0);
+ subc->gr->bound = NOUVEAU_GROBJ_UNBOUND;
+ }
+ subc->gr = gr;
+ subc->gr->subc = sc;
+ subc->gr->bound = NOUVEAU_GROBJ_BOUND_EXPLICIT;
+
+ BEGIN_RING(chan, gr, 0x0000, 1);
+ OUT_RING (chan, gr->grclass);
+}
+
+#endif
diff --git a/nouveau/Makefile.am b/nouveau/Makefile.am
index 206e892..f21157e 100644
--- a/nouveau/Makefile.am
+++ b/nouveau/Makefile.am

```

```

@@ -6,20 +6,20 @@ AM_CFLAGS = \
-I$(top_srcdir)/include/drm \
-DDEBUG

-libdrm_nouveau_la_LTLIBRARIES = libdrm_nouveau.la
-libdrm_nouveau_ladir = $(libdir)
-libdrm_nouveau_la_LDFLAGS = -version-number 2:0:0 -no-undefined
-libdrm_nouveau_la_LIBADD = ../libdrm.la @PTHREADSTUBS_LIBS@
+libdrm_nouveau2_la_LTLIBRARIES = libdrm_nouveau2.la
+libdrm_nouveau2_ladir = $(libdir)
+libdrm_nouveau2_la_LDFLAGS = -version-number 2:0:0 -no-undefined
+libdrm_nouveau2_la_LIBADD = ../libdrm.la @PTHREADSTUBS_LIBS@

-libdrm_nouveau_la_SOURCES = nouveau.c \
-    pushbuf.c \
-    bufctx.c \
-    abi16.c \
-    private.h
+libdrm_nouveau2_la_SOURCES = nouveau.c \
+    pushbuf.c \
+    bufctx.c \
+    abi16.c \
+    private.h

libdrm_nouveauintelincludedir = ${includedir}/libdrm
libdrm_nouveauintelinclude_HEADERS = nouveau.h

pkgconfigdir = @pkgconfigdir@
-pkgconfig_DATA = libdrm_nouveau.pc
+pkgconfig_DATA = libdrm_nouveau2.pc
diff --git a/nouveau/libdrm_nouveau.pc.in b/nouveau/libdrm_nouveau2.pc.in
deleted file mode 100644
index 6170613..0000000
--- a/nouveau/libdrm_nouveau.pc.in
+++ /dev/null
@@ -1,11 +0,0 @@
-prefix=@prefix@
-exec_prefix=@exec_prefix@
-libdir=@libdir@
-includedir=@includedir@
-
-Name: libdrm_nouveau
-Description: Userspace interface to nouveau kernel DRM services
-Version: 2.4.33
-Libs: -L${libdir} -ldrm_nouveau
-Cflags: -I${includedir} -I${includedir}/libdrm -I${includedir}/nouveau
-Requires.private: libdrm

```

```
diff --git a/nouveau/libdrm_nouveau2.pc.in b/nouveau/libdrm_nouveau2.pc.in
new file mode 100644
index 0000000..36971e8
--- /dev/null
+++ b/nouveau/libdrm_nouveau2.pc.in
@@ -0,0 +1,11 @@
+prefix=@prefix@
+exec_prefix=@exec_prefix@
+libdir=@libdir@
+includedir=@includedir@
+
+Name: libdrm_nouveau2
+Description: Userspace interface to nouveau kernel DRM services
+Version: 2.4.33
+Libs: -L${libdir} -ldrm_nouveau2
+Cflags: -I${includedir} -I${includedir}/libdrm
+Requires.private: libdrm
--
1.7.10.2
```

Found in path(s):

```
* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-4OaDcUrK/libdrm-2.4.37-nouveau-1.patch
```

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```
/* dristat.c --
```

```
* Created: Mon Jan 15 05:05:07 2001 by faith@acm.org
```

```
*
```

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```

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*
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* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-4OaDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/radeon/radeon_surface.h

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4OaDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/radeon/radeon_bo.h
* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-
4OaDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/radeon/radeon_cs_gem.c
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*

* Authors:

* Eric Anholt <eric@anholt.net>

*

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4OaDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/tests/gem_basic.c
* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-
4OaDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/tests/gem_readwrite.c
* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-
4OaDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/intel/intel_bufmgr_priv.h
* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-
4OaDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/tests/gem_mmap.c

```
* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-4OaDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/tests/gem_flink.c
```

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#
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```

```
AC_PREREQ([2.63])
```

```
AC_INIT([libdrm],  
        [2.4.39],  
        [https://bugs.freedesktop.org/enter\_bug.cgi?product=DRI],  
        [libdrm])
```

```
AC_CONFIG_HEADERS([config.h])  
AC_CONFIG_SRCDIR([Makefile.am])  
AC_CONFIG_MACRO_DIR([m4])  
AC_CONFIG_AUX_DIR([build-aux])
```

```
AM_INIT_AUTOMAKE([1.10 foreign dist-bzip2])
```

```
AM_MAINTAINER_MODE([enable])
```

```
# Enable quiet compiles on automake 1.11.
```

```
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])
```

```
# Check for programs
```

```
AC_PROG_CC
```

```
AC_USE_SYSTEM_EXTENSIONS
```

```
AC_SYS_LARGEFILE
```

```
AC_FUNC_ALLOCA
```

```

# Initialize libtool
LT_PREREQ([2.2])
LT_INIT([disable-static])

PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs)
AC_SUBST(PTHREADSTUBS_CFLAGS)
AC_SUBST(PTHREADSTUBS_LIBS)

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
AC_ARG_ENABLE([udev],
    [AS_HELP_STRING([--enable-udev],
        [Enable support for using udev instead of mknod (default: disabled)]),
    [UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE([libkms],
    [AS_HELP_STRING([--disable-libkms],
        [Disable KMS mm abstraction library (default: auto)]),
    [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE([intel],
    [AS_HELP_STRING([--disable-intel],
        [Enable support for intel's KMS API (default: auto)]),
    [INTEL=$enableval], [INTEL=auto])

AC_ARG_ENABLE([radeon],
    [AS_HELP_STRING([--disable-radeon],
        [Enable support for radeon's KMS API (default: auto)]),
    [RADEON=$enableval], [RADEON=auto])

AC_ARG_ENABLE([nouveau],
    [AS_HELP_STRING([--disable-nouveau],
        [Enable support for nouveau's KMS API (default: auto)]),
    [NOUVEAU=$enableval], [NOUVEAU=auto])

AC_ARG_ENABLE([vmwgfx-experimental-api],
    [AS_HELP_STRING([--enable-vmwgfx-experimental-api],
        [Install vmwgfx's experimental kernel API header (default: disabled)]),
    [VMWGFX=$enableval], [VMWGFX=no])

AC_ARG_ENABLE([omap-experimental-api],
    [AS_HELP_STRING([--enable-omap-experimental-api],
        [Enable support for OMAP's experimental API (default: disabled)]),
    [OMAP=$enableval], [OMAP=no])

AC_ARG_ENABLE([exynos-experimental-api],
    [AS_HELP_STRING([--enable-exynos-experimental-api],

```

```
[Enable support for EXYNOS's experimental API (default: disabled)],
[EXYNOS=$enableval], [EXYNOS=no])
```

```
dnl =====
```

```
dnl check compiler flags
```

```
AC_DEFUN([LIBDRM_CC_TRY_FLAG], [
AC_MSG_CHECKING([whether $CC supports $1])
```

```
libdrm_save_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS $1"
```

```
AC_COMPILE_IFELSE([ ], [libdrm_cc_flag=yes], [libdrm_cc_flag=no])
CFLAGS="$libdrm_save_CFLAGS"
```

```
if test "x$libdrm_cc_flag" = "xyes"; then
  ifelse([$2], , :, [$2])
else
  ifelse([$3], , :, [$3])
fi
AC_MSG_RESULT([$libdrm_cc_flag])
])
```

```
dnl We use clock_gettime to check for timeouts in drmWaitVBlank
```

```
AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],
  [AC_CHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],
    [AC_MSG_ERROR([Couldn't find clock_gettime])])])
AC_SUBST([CLOCK_LIB])
```

```
AC_CHECK_FUNCS([open_memstream], [HAVE_OPEN_MEMSTREAM=yes])
```

```
dnl Use lots of warning flags with with gcc and compatible compilers
```

```
dnl Note: if you change the following variable, the cache is automatically
dnl skipped and all flags rechecked. So there's no need to do anything
dnl else. If for any reason you need to force a recheck, just change
dnl MAYBE_WARN in an ignorable way (like adding whitespace)
```

```
MAYBE_WARN="-Wall -Wextra \
-Wsign-compare -Werror-implicit-function-declaration \
-Wpointer-arith -Wwrite-strings -Wstrict-prototypes \
-Wmissing-prototypes -Wmissing-declarations -Wnested-externs \
-Wpacked -Wswitch-enum -Wmissing-format-attribute \
-Wstrict-aliasing=2 -Winit-self \
-Wdeclaration-after-statement -Wold-style-definition \
-Wno-missing-field-initializers -Wno-unused-parameter \
-Wno-attributes -Wno-long-long -Winline"
```

```

# invalidate cached value if MAYBE_WARN has changed
if test "x$libdrm_cv_warn_maybe" != "x$MAYBE_WARN"; then
  unset libdrm_cv_warn_cflags
fi
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [
  echo
  WARN_CFLAGS=""

  # Some warning options are not supported by all versions of
  # gcc, so test all desired options against the current
  # compiler.
  #
  # Note that there are some order dependencies
  # here. Specifically, an option that disables a warning will
  # have no net effect if a later option then enables that
  # warnings, (perhaps implicitly). So we put some grouped
  # options (-Wall and -Wextra) up front and the -Wno options
  # last.

  for W in $MAYBE_WARN; do
    LIBDRM_CC_TRY_FLAG([$W], [WARN_CFLAGS="$WARN_CFLAGS $W"])
  done

  libdrm_cv_warn_cflags=$WARN_CFLAGS
  libdrm_cv_warn_maybe=$MAYBE_WARN

  AC_MSG_CHECKING([which warning flags were supported])
  WARN_CFLAGS="$libdrm_cv_warn_cflags"

  if test "x$UDEV" = xyes; then
    AC_DEFINE(UDEV, 1, [Have UDEV support])
  fi

  AC_CANONICAL_HOST
  if test "x$LIBKMS" = xauto ; then
    case $host_os in
      linux*) LIBKMS="yes" ;;
      *) LIBKMS="no" ;;
    esac
  fi

  AM_CONDITIONAL(HAVE_LIBKMS, [test "x$LIBKMS" = xyes])

  AM_CONDITIONAL(HAVE_VMWGFX, [test "x$VMWGFX" = xyes])
  if test "x$VMWGFX" = xyes; then
    AC_DEFINE(HAVE_VMWGFX, 1, [Have vmwgfx kernel headers])
  fi

```

```

AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" = xyes])
if test "x$NOUVEAU" = xyes; then
  AC_DEFINE(HAVE_NOUVEAU, 1, [Have nouveau (nvidia) support])
fi

AM_CONDITIONAL(HAVE_OMAP, [test "x$OMAP" = xyes])
if test "x$OMAP" = xyes; then
  AC_DEFINE(HAVE_OMAP, 1, [Have OMAP support])
fi

AM_CONDITIONAL(HAVE_EXYNOS, [test "x$EXYNOS" = xyes])
if test "x$EXYNOS" = xyes; then
  AC_DEFINE(HAVE_EXYNOS, 1, [Have EXYNOS support])
fi

PKG_CHECK_MODULES(CAIRO, cairo, [HAVE_CAIRO=yes], [HAVE_CAIRO=no])
if test "x$HAVE_CAIRO" = xyes; then
  AC_DEFINE(HAVE_CAIRO, 1, [Have cairo support])
fi
AM_CONDITIONAL(HAVE_CAIRO, [test "x$HAVE_CAIRO" = xyes])

# For enumerating devices in test case
PKG_CHECK_MODULES(LIBUDEV, libudev, [HAVE_LIBUDEV=yes], [HAVE_LIBUDEV=no])
if test "x$HAVE_LIBUDEV" = xyes; then
  AC_DEFINE(HAVE_LIBUDEV, 1, [Have libudev support])
fi
AM_CONDITIONAL(HAVE_LIBUDEV, [test "x$HAVE_LIBUDEV" = xyes])

if test "x$INTEL" != "xno" -o "x$RADEON" != "xno" -o "x$NOUVEAU" != "xno" -o "x$OMAP" != "xno"; then
  # Check for atomic intrinsics
  AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives,
  [
    drm_cv_atomic_primitives="none"

    AC_LINK_IFELSE([AC_LANG_PROGRAM([[
int atomic_add(int i) { return __sync_fetch_and_add (&i, 1); }
int atomic_cmpxchg(int i, int j, int k) { return __sync_val_compare_and_swap (&i, j, k); }
]], [[]]),
    [drm_cv_atomic_primitives="Intel"],[])

    if test "x$drm_cv_atomic_primitives" = "xnone"; then
      AC_CHECK_HEADER([atomic_ops.h], drm_cv_atomic_primitives="libatomic-ops")
    fi

    # atomic functions defined in <atomic.h> & libc on Solaris
    if test "x$drm_cv_atomic_primitives" = "xnone"; then
      AC_CHECK_FUNC([atomic_cas_uint],
        drm_cv_atomic_primitives="Solaris")
    fi
  ]
)

```

```

fi

)

if test "x$drm_cv_atomic_primitives" = xIntel; then
    AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1,
        [Enable if your compiler supports the Intel __sync_* atomic primitives])
fi

if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
    AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
fi

if test "x$drm_cv_atomic_primitives" = "xnone"; then
    if test "x$INTEL" != "xauto"; then
        if test "x$INTEL" != "xno"; then
            AC_MSG_ERROR([libdrm_intel depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those,
disable support for Intel GPUs by passing --disable-intel to ./configure])
        fi
    else
        AC_MSG_WARN([Disabling libdrm_intel. It depends on atomic operations, which were not found for
your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
        INTEL=no
    fi
    if test "x$RADEON" != "xauto"; then
        if test "x$RADEON" != "xno"; then
            AC_MSG_ERROR([libdrm_radeon depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those,
disable support for Radeon support by passing --disable-radeon to ./configure])
        fi
    else
        AC_MSG_WARN([Disabling libdrm_radeon. It depends on atomic operations, which were not found for
your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
        RADEON=no
    fi
    if test "x$NOUVEAU" != "xauto"; then
        if test "x$NOUVEAU" != "xno"; then
            AC_MSG_ERROR([libdrm_nouveau depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those,
disable support for NVIDIA GPUs by passing --disable-nouveau to ./configure])
        fi
    else
        AC_MSG_WARN([Disabling libdrm_nouveau. It depends on atomic operations, which were not found
for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
        NOUVEAU=no
    fi
    else
        if test "x$INTEL" != "xno"; then
            case $host_cpu in

```

```

        i?86|x86_64) INTEL=yes ;;
        *) INTEL=no ;;
    esac
fi
if test "x$RADEON" != "xno"; then
    RADEON=yes
fi
if test "x$NOUVEAU" != "xno"; then
    NOUVEAU=yes
fi
fi
fi

if test "x$INTEL" != "xno"; then
    PKG_CHECK_MODULES(PCIAccess, [pciaccess >= 0.10])
fi
AC_SUBST(PCIAccess_CFLAGS)
AC_SUBST(PCIAccess_LIBS)

PKG_CHECK_MODULES(VAlGRIND, [valgrind], [have_valgrind=yes], [have_valgrind=no])
if test "x$have_valgrind" = "xyes"; then
    AC_DEFINE([HAVE_VALGRIND], 1, [Use valgrind intrinsics to suppress false warnings])
fi

AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" != "xno"])
AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" != "xno"])
AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" != "xno"])
if test "x$RADEON" = xyes; then
    AC_DEFINE(HAVE_RADEON, 1, [Have radeon support])
fi

AC_ARG_WITH([kernel-source],
    [AS_HELP_STRING([--with-kernel-source],
    [specify path to linux kernel source]),
    [kernel_source="$with_kernel_source"])
AC_SUBST(kernel_source)

AC_SUBST(WARN_CFLAGS)
AC_CONFIG_FILES([
    Makefile
    libkms/Makefile
    libkms/libkms.pc
    intel/Makefile
    intel/libdrm_intel.pc
    radeon/Makefile
    radeon/libdrm_radeon.pc
    nouveau/Makefile
    nouveau/libdrm_nouveau.pc

```

```
omap/Makefile
omap/libdrm_omap.pc
exynos/Makefile
exynos/libdrm_exynos.pc
tests/Makefile
tests/modeprint/Makefile
tests/modetest/Makefile
tests/kmstest/Makefile
tests/radeon/Makefile
tests/vbltest/Makefile
include/Makefile
include/drm/Makefile
libdrm.pc])
AC_OUTPUT
```

```
echo ""
echo "$PACKAGE_STRING will be compiled with:"
echo ""
echo " libkms      $LIBKMS"
echo " Intel API   $INTEL"
echo " vmwgfx API   $VMWGFY"
echo " Radeon API   $RADEON"
echo " Nouveau API  $NOUVEAU"
echo " OMAP API     $OMAP"
echo " EXYNOS API   $EXYNOS"
echo ""
```

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```
* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-4OaDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/configure.ac
```

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* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-4OaDcUrK/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/xf86drmMode.h

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* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-4OaDcUrK/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/tests/radeon/rbo.h
* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-4OaDcUrK/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/tests/radeon/rbo.c

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```
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*
* Rewritten by:
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/* drmstat.c -- DRM device status and testing program

* Created: Tue Jan 5 08:19:24 1999 by faith@precisioninsight.com

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* /opt/cola/permits/1129350813_1612254548.17/0/libdrm-2.4.39-1.el6-1.src.rpm-cosi-expand-archive-4OaDcUrK/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/radeon/bof.h

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* GLX Hardware Device Driver common code

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/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation

* Created: Mon Apr 19 08:28:13 1999 by faith@precisioninsight.com

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*

* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

*

* DESCRIPTION

*

* This file contains a simple, straightforward implementation of the Park
* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
* multiplicative linear congruential generator (MLCG) with a period of
* $2^{31}-1$.

*

* This implementation is intended to provide a reliable, portable PRNG
* that is suitable for testing a hash table implementation and for
* implementing skip lists.

*

* FUTURE ENHANCEMENTS

*

* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated. [Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.

*

* If PRNGs are used for simulation, the period of the current
* implementation may be too short. [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M. [LE90 and Sch92] also provide information on
* long-period PRNGs.

*

* REFERENCES

*

* [Knuth81] Donald E. Knuth. The Art of Computer Programming. Volume 2:
* Seminumerical Algorithms. Reading, Massachusetts: Addison-Wesley, 1981.

*

* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
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*

* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10),
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*

* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
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*

* [Sch92] Bruce Schneier. "Pseudo-Ransom Sequence Generator for 32-Bit
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* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer. In
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* Number Generators". CACM 36(7), July 1993, pp. 105-110.

*

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* DRM based mode setting test program

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/* xf86drmSL.c -- Skip list support

* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com

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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

*

* DESCRIPTION

*

* This file contains a straightforward skip list implementation.n

*

* FUTURE ENHANCEMENTS

*

* REFERENCES

*

* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to

* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.

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```

/* savage_drm.h -- Public header for the savage driver
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40aDcUrk/libdrm-2.4.39.tar.bz2-cosi-expand-archive-Ax5sJhpW/libdrm-2.4.39/include/drm/savage_drm.h

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*

* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

*

* DESCRIPTION

*

* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution. There are two potentially interesting things
* about this implementation:

*

* 1) The table is power-of-two sized. Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.

*

* 2) The hash computation uses a table of random integers [Hanson97,
* pp. 39-41].

*

* FUTURE ENHANCEMENTS

*

* With a table size of 512, the current implementation is sufficient for a
* few hundred keys. Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises. A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table. The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.

*

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*

* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:
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*

* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April

* 1988, pp. 446-457.

*

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1.137 mingetty 1.08 5.e16

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 */
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1.139 hd-parm 9.58

1.140 module-init-tools 3.9-21.el6_4

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```
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```
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1.141 gtk 2.24.33

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Because of this blurred distinction, using the ordinary General

Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.142 libdaemon 0.14

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1.144 libevent 2.0.16

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1.145 gir1.2-gdkpixbuf-2.0 2.16.0

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1.146 zlib 1.2.6

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1.147 mesa 20.3.4

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```
libfreedreno_layout = static_library(  
    'freedreno_layout',  
    [  
        'fd5_layout.c',  
        'fd6_layout.c',
```

```

'freedreno_layout.c',
],
include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
c_args : [no_override_init_args],
gnu_symbol_visibility : 'hidden',
dependencies : idep_nir_headers,
build_by_default : false,
)

foreach major : ['5', '6']
test(
'fd' + major + '_layout',
executable(
'fd' + major + '_layout',
[
'fd_layout_test.c',
'fd' + major + '_layout_test.c',
freedreno_xml_header_files,
],
link_with: libfreedreno_layout,
dependencies : idep_mesauttil,
include_directories: [
inc_include,
inc_src,
inc_mapi,
inc_mesa,
inc_gallium,
inc_gallium_aux,
inc_freedreno],
),
suite : ['freedreno'],
)
endforeach

```

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1.148 pam 1.5.1

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1.153 python 2.6.6-37.el6_4

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |

| | | | | |
|-------|-------|-----------|-----|-----|
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |

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1.154 libpng 1.2.49

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*

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#
# This script attempts to guess a canonical system name similar to
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# exits with 0. Otherwise, it exits with 1.
#
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

```

*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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- * `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

- * `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

- * `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream`

classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-->
```

```
<!-- $Id$ -->
```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>
```

```
<xsl:variable name="isc.copyright.text">
  <xsl:text>
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```

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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:
- mode: sgml
- End:

-->

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1.168 openssl 1.0.0

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1.170 e2fsprogs 1.41.12-14.el6_4.2

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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This package was put together by Yann Dirson <dirson@debian.org>,
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o
23-June-2007

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

```
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```

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.171 **bsd-mailx 8.1.2**

1.171.1 Available under license :

```
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* SUCH DAMAGE.
*/
```

1.172 rapidxml 1.13.3

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spawn_console.c spawn_login.c
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1.174 file 5.04-15.el6

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1.175 usbutils 013

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@ignore

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@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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```
@smallexample
```

```
@var{one line to give the program's name and a brief idea of what it does.}
```

```
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```

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```
@end smallexample
```

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```
@smallexample
```

```
@var{program} Copyright (C) @var{year} @var{name of author}
```

```
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```

```
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```

```
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```

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@c man end

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu(hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson(brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen(Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard(beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz(schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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gfdl(7), fsf-funding(7).

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@unnumberedsec Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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```
@c man end
Copyright (c) 2001, Thai Open Source Software Center Ltd, Sun Microsystems.
All rights reserved.
```

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Version 2.1, February 1999

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David Megginson, sax@megginson.com
1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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Version 3.1, 31 March 2009

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@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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@end iftex

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1.177 sqlite 3.6.20 1.e16

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**
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# Please send patches to <config-patches@gnu.org>. Submit a context
# diff and a properly formatted ChangeLog entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
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1.181 xfsprogs 3.1.1

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
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```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.185 libsemanage 2.0.43 4.2.el6

1.185.1 Available under license :

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Version 2.1, February 1999

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy

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1.186 pango 1.48.1

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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```

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1.188 i2c-tools 3.1

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1.189 parted 3.4

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Version 3, 29 June 2007

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1.190 binutils 2.22

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@end group

@end smallexample

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
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(This file is under construction.) -*- text -*-

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This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various

enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k,

i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

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The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified

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a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
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3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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- d) Do one of the following:
 - 0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.
 - 1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.
- e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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@end display

@appendixsubsec Preamble

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the `Lesser` General Public License because it does *Less* to protect the user's freedom than the ordinary General Public License. It also provides other free software developers *Less* of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU

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@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

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@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item

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@item

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@enumerate a

@item

The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

@end enumerate

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@item

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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@enumerate a

@item

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

@end enumerate

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end smallexample

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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@c ispell-local-pdict: "ispell-dict"

@c End:

1.193 elfutils 0.152-1.el6

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1.199 lua 5.1.4 4.1.el6

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1.200 openssh 7.6p1

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```
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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
```

```

#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

```

```

#define INFTIM (-1) /* not standard */

```

```

int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H */
#endif /* !HAVE_POLL_H */

```

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```

[Tatu continues]

```

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* @version 3.0 (December 2000)

*

* Optimised ANSI C code for the Rijndael cipher (now AES)

*

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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```

-----
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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

```

```

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/*
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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

```

1.201 iproute 2.6.32-23.el6

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Version 2, June 1991

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1.202 texinfo 4.13a-8.el6

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```
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```

```
@copying
```

```
Public domain.
```

```
@end copying
```

```
@insertcopying
```

```
@bye
```

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Version 3, 29 June 2007

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1.203 libcap 2.47

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```
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```

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```
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```

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1.204 libvirt 0.9.12

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1.207 libcroco 0.6.13

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We

concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the

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```
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1.211 gawk 3.1.7 10.e16

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```

```
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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
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```

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1.212 libgcrypt 1.5.0

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Version 2, June 1991

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```
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```

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```
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```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.217 which 2.19-6.el6

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to

use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
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- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be

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1.219 sysklogd 1.5.0

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```
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```
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1.220 util-linux 2.36.1

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 */
NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
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6 12544 16127 3584 1.8M

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```
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*/

1.222 bash 4.1.2-15.el6_4

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From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT

Message-Id: <9505251618.AA16031@tepui.cli.com>

From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu

Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with

SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: <http://www.armory.com/~spcedt/>
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deephought.armory.com>

Sure. The canonical versions are available on <ftp.armory.com>; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
```

}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400

Received: by los.ora.com (4.1/Spike-2.1)

id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

1.223 vim 8.2.2450

1.224 linux-kernel 3.4.49.0.1

1.224.1 Available under license :

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QLogic Linux FC-FCoE Driver

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather lists

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

```

*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/

```

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacompt.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
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Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppage DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>

for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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file_io/unix/mktemp.c, strings/apr_strings.c:

/*

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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* cvt - IEEE floating point formatting routines.
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the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for

some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added `.include` support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. `jsr`), while synthetic instructions remained shrinkable (`jbsr`). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's `mips-tfile` program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the `binutils` releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made `gas` able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (`sparc`, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the `binutils` to `openVMS/Alpha`.

Steve Haworth contributed the support for the Texas Instruction c30 (`tms320c30`).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error

checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.233 nfs-utils 0.25

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1.234 util-linux 2.21.0

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\*/

NR START END SECTORS SIZE NAME UUID

```
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
```

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```
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```
WEV @@ WEV[B "1
```

```
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```
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```

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```

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```
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```

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43mI,5WEV @@ WEV @mImImIAmImImI0mImImI\*mImI  
A0mImImI...  
lost+found...

;9GimCN7g

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!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

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!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
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```
!"#$%&'()*+,-
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!"#$%&'()*+,-
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```

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## 1.235 curl 7.19.7

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## 1.236 libnotify 0.5.0 1.e16

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```

```
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Ty Coon, President of Vice
```

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# 1.237 grep 3.6-1

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Version 3, 29 June 2007

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## 1.239 iptables 1.8.7

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## 1.241 libxfont 1.5.4r1

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```
/* lib/font/fontfile/gunzip.c
 written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
 intended for inclusion in X11 public releases. */
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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
 <xsl:text>
</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '
')"/>
 <xsl:if test="translate($rest, '	 ', '')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
 </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
```

```
<xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

(May be used for SSL/TLS support) Is covered by the MPL[4] license, the GPL[1] license and the LGPL[3] license. You may choose to license the code under MPL terms, GPL terms, or LGPL terms. These licenses

grant you different permissions and impose different obligations. You should select the license that best meets your needs.

c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS <http://www.gnu.org/software/gss/>

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive

"copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[1] = GPL - GNU General Public License: <http://www.gnu.org/licenses/gpl.html>

[2] = <http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs> details on how to write such an exception to the GPL

[3] = LGPL - GNU Lesser General Public License:  
<http://www.gnu.org/licenses/lgpl.html>

[4] = MPL - Mozilla Public License:  
<http://www.mozilla.org/MPL/>

## 1.252 libuser 0.56.13 5.e16

### 1.252.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.253 traceroute 2.1.0

### 1.253.1 Available under license :

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Version 2, June 1991

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## 1.254 libxi 1.7.10

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# 1.255 libsamplerate 0.1.8

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Secret Rabbit Code (aka libsamplerate)
```

```
</TITLE>
```

```
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```

```
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<!-- pepper -->

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<DIV CLASS="nav">

 Home

 License

 History

 Download

 Quality

 API

 Bug Reporting

 On Win32

 FAQ

 Mailing Lists

 ChangeLog

<DIV CLASS="block">
Author :
Erik de Castro Lopo
<!-- pepper -->

<!-- pepper -->

</DIV>
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<DIV CLASS="block">

<H1>License</H1>

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<!-- pepper -->
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licensing scheme where people could chose to use it under the terms
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</P>
<!-- pepper -->
<P>
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</P>
<!-- pepper -->
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</TABLE>

</BODY>
</HTML>
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Here is a list of the main contributors to lm-sensors version 3.

\* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

\* Merlin Hughes

Original author of sensord.

\* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

\* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

\* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

# 1.259 lvm2 2.02.187

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```
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Version 2, June 1991

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*
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.1.3 | 2.1.2 | 2002      | PSF | yes |
| 2.2.1 | 2.2   | 2002      | PSF | yes |
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| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
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| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
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| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
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| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
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| 2.7   | 2.6   | 2010      | PSF | yes |

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## 1.270 python-argparse 1.2.1-2.el6

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting  
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
as a successor of a language called ABC. Guido remains Python's  
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for  
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
in Reston, Virginia where he released several versions of the  
software.

In May 2000, Guido and the Python core development team moved to  
BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
year, the PythonLabs team moved to Digital Creations (now Zope  
Corporation, see <http://www.zope.com>). In 2001, the Python Software  
Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
non-profit organization created specifically to own Python-related  
Intellectual Property. Zope Corporation is a sponsoring member of  
the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
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| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
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| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
| 2.7            | 2.6          | 2010      | PSF        | yes                 |

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@smallexample

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c

lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c  
@end smallexample

and the initial implementation of incremental propagation, including the following new or changed files:

@smallexample  
include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c  
@end smallexample

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lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
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lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c

lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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kadmin/server/iprofd\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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## 1.275 keyutils 1.4-4.el6

### 1.275.1 Available under license :

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```
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```

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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```
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# 1.278 hd-parm 9.39

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## 1.282 rpm 4.16.1.2

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Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation

and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one

of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any

particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.283 grep 2.6.3-3.el6

### 1.283.1 Available under license :

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

## 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

## 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

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No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical

medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install

and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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```

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```
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```

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## 1.284 unzip 6.0

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-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding \_in an apparatus that performs LZW encoding\_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode());

replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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```
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*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
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```

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\*  
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\*  
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\* -----  
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

-----

# 1.285 gir1.2-gdkpixbuf-2.0 2.18.9

## 1.285.1 Available under license :

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Version 2.1, February 1999

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## 1.287 make 3.82

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the

users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in

themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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#### END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>
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```

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system

(if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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## 1.289 dosfs-tools 3.0.22

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```

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## 1.290 readline 8.1.0

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## Source Files

-----

. The file ``src/libs/snprintf/snprintf.c'`, written by Mark Martinec <[mark.martinec@ijs.si](mailto:mark.martinec@ijs.si)>.

Please look into `snprintf.c` for the copyright message.

The complete snprintf package together with documentation is available from

<http://www.ijs.si/software/snprintf/> .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at  
<http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z> .

```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
```

src/devices/xditview/xdit\_mask.bm

src/devices/xditview/xditview.c

src/include/DviChar.h

src/include/XFontName.h

src/libs/libxutil/DviChar.c

src/libs/libxutil/XFontName.c

## Macro Packages

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. The -mdoc macro set, using the BSD license.

tmac/doc.tmac

tmac/doc-old.tmac

tmac/doc-common

tmac/doc-ditroff

tmac/doc-nroff

tmac/doc-syms

tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac

tmac/groff\_me.man

doc/meintro.me

doc/meref.me

## Hyphenation Patterns

-----

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

<http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex> .

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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@c ispell-local-pdict: "ispell-dict"
@c End:
AUTHOR

Peter Schaffter (pschaffter@magma.ca)
3-281, rue de Cannes
Gatineau (QC)
J8T 8B9
```

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# 1.293 visual-studio-runtime 1.1

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## 1.294 zlib 1.2.5

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.5, April 19th, 2010
```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

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\*/

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/\*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

\*/

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## 1.303 wget 1.12

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## 1.304 qemu 1.1.0

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John R. Hauser  
2018 January 20

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[https://bugzilla.tianocore.org/show\\_bug.cgi?id=1373](https://bugzilla.tianocore.org/show_bug.cgi?id=1373)

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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.1 The "TianoCore Contribution Agreement" is included below in this document.
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```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message ==
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
```

```
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary
```

```
Full-commit-message
```

Contributed-under: TianoCore Contribution Agreement 1.1  
Signed-off-by: Contributor Name <contributor@example.com>  
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- \* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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=====  
= Code Contributions =  
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To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,

and "Contributed-under" message.

3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0 The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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Contributions using other licenses might be accepted, but further review will be required.

```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>  
 Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0  
 Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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John R. Hauser  
2018 January 20

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```
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{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
```

```

{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%x, %d, %d, %x, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%x,%x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %x, %d)", NULL, NULL },

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{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\", %o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\", %o, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%x, %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\", %o, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\", %o, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d, %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\", %p, %d)", NULL, NULL },

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{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },

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John R. Hauser  
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=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message ==
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary
```

```
Full-commit-message
```

```
Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
```

```

```

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- \* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

=====  
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=====

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-----  
-----  
Contributions.txt: TianoCore Contribution Agreement 1.0  
-----

=====  
= Code Contributions =  
=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message

must include the name of contribution agreement and version.  
For example: Contributed-under: TianoCore Contribution Agreement 1.0  
The "TianoCore Contribution Agreement" is included below in  
this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:
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  - \* MIT: <http://opensource.org/licenses/MIT>
  - \* Python-2.0: <http://opensource.org/licenses/Python-2.0>
  - \* Zlib: <http://opensource.org/licenses/Zlib>

Contributions of code put into the public domain can also be accepted.

Contributions using other licenses might be accepted, but further review will be required.

```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message =
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary
```

```
Full-commit-message
```

```
Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

```

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
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```

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```

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Ty Coon, President of Vice

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Index: debug.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- debug.c 7 Sep 2007 10:01:21 -0000 1.1

+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3

@@ -52,7 +52,11 @@

void X86EMU\_trace\_regs (void)

{

  if (DEBUG\_TRACE()) {

-  x86emu\_dump\_regs();

+ if (M.x86.mode & (SYSMODE\_PREFIX\_DATA | SYSMODE\_PREFIX\_ADDR)) {

+  x86emu\_dump\_xregs();

+ } else {

+  x86emu\_dump\_regs();

+ }

}

  if (DEBUG\_DECODE() && !DEBUG\_DECODE\_NOPRINT()) {

    printk("%04x:%04x ", M.x86.saved\_cs, M.x86.saved\_ip);

@@ -185,7 +189,7 @@

  for (i=0; i< M.x86.enc\_pos; i++) {

    sprintf(buf1+2\*i,"%02x", fetch\_data\_byte\_abs(s,o+i));

  }

-  printk("%-20s",buf1);

+  printk("%-20s ",buf1);

}

static void print\_decoded\_instruction (void)

Index: ops2.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v

retrieving revision 1.1

retrieving revision 1.3

```

diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
 target += (s16) M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", target);
 TRACE_AND_STEP();
- if (cond)
+ if (cond) {
+ M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/******
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+ case 0xc8:
+ DECODE_PRINTF("EAX\n");
+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+ break;
+ case 0xc9:
+ DECODE_PRINTF("ECX\n");
+ M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+ break;
+ case 0xca:
+ DECODE_PRINTF("EDX\n");
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);

```

```

+ break;
+ case 0xcb:
+ DECODE_PRINTF("EBX\n");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+ DECODE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECODE_PRINTF("EBP\n");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:
+ DECODE_PRINTF("ESI\n");
+ M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+ break;
+ case 0xcf:
+ DECODE_PRINTF("EDI\n");
+ M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+ break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+ }
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,

```

/\* 0xd1 \*/ x86emuOp2\_illegal\_op,

Index: ops.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

retrieving revision 1.1

diff -u -u -r1.1 ops.c

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops.c 20 Mar 2008 16:52:00 -0000

@@ -1061,7 +1061,11 @@

```
 imm = (s8)fetch_byte_imm();
 DECODE_PRINTF2("PUSH\t%d\n", imm);
 TRACE_AND_STEP();
```

```
- push_word(imm);
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ push_long(imm);
+ } else {
+ push_word(imm);
+ }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
```

@@ -1256,8 +1260,10 @@

```
 target = (u16)(M.x86.R_IP + (s16)offset);
 DECODE_PRINTF2("%x\n", target);
 TRACE_AND_STEP();
```

```
- if (cond)
+ if (cond) {
+ M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
```

@@ -2516,9 +2522,11 @@

```
 count = 1;
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
 M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
 }
```

```
 while (count--)
```

@@ -2526,6 +2534,8 @@

```

 store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
 M.x86.R_SI += inc;
 M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
 }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -2559,9 +2569,11 @@
 count = 1;
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
 M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
 }
 while (count--) {
@@ -2574,6 +2586,8 @@
 }
 M.x86.R_SI += inc;
 M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
 }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -2598,16 +2612,21 @@

 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 val1 = fetch_data_byte(M.x86.R_SI);
 val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
 cmp_byte(val1, val2);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
 M.x86.R_SI += inc;

```

```

M.x86.R_DI += inc;
if ((M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0)) break;
if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
 }
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
 TRACE_AND_STEP();
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 if (M.x86.mode & SYSMODE_PREFIX_DATA) {
 val1 = fetch_data_long(M.x86.R_SI);
 val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
 val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
 cmp_word((u16)val1, (u16)val2);
 }
- M.x86.R_CX -- 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -- 1;
+ else
+ M.x86.R_CX -- 1;
 M.x86.R_SI += inc;
 M.x86.R_DI += inc;
 if ((M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0) break;
 if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
 }
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
 TRACE_AND_STEP();
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -- 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)

```

```

+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
+ }
+ M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+ } else {
@@ -2783,9 +2812,11 @@
+ count = 1;
+ if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+ /* dont care whether REPE or REPNE */
+ /* move them until CX is ZERO. */
+ count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+ M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
+ M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+ }
+ while (count--) {
@@ -2795,6 +2826,8 @@
+ store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
+ }
+ M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
@@ -2817,11 +2850,16 @@
+ inc = 1;
+ if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+ /* dont care whether REPE or REPNE */
+ /* move them until CX is ZERO. */
+ while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+ M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
+ M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALTED)

```

```

+ break;
 }
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
 count = 1;
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
 M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
 }
 while (count--) {
@@ -2871,6 +2911,8 @@
 M.x86.R_AX = fetch_data_word(M.x86.R_SI);
 }
 M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
 }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -2894,26 +2936,36 @@
 inc = 1;
 if (M.x86.mode & SYSMODE_PREFIX_REPE) {
 /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
 cmp_byte(M.x86.R_AL, val2);
- M.x86.R_CX -- 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -- 1;
+ else
+ M.x86.R_CX -- 1;
 M.x86.R_DI += inc;
 if (ACCESS_FLAG(F_ZF) == 0)
 break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
 }
 }

```

```

M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
 /* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
 cmp_byte(M.x86.R_AL, val2);
- M.x86.R_CX -- 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -- 1;
+ else
+ M.x86.R_CX -- 1;
 M.x86.R_DI += inc;
 if (ACCESS_FLAG(F_ZF))
 break; /* zero flag set means equal */
+ if (M.x86.intr & INTR_HALTED)
+ break;
 }
 M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
 TRACE_AND_STEP();
 if (M.x86.mode & SYSMODE_PREFIX_REPE) {
 /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 if (M.x86.mode & SYSMODE_PREFIX_DATA) {
 val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
 cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
 val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
 cmp_word(M.x86.R_AX, (u16)val);
 }
- M.x86.R_CX -- 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -- 1;
+ else
+ M.x86.R_CX -- 1;
 M.x86.R_DI += inc;
 if (ACCESS_FLAG(F_ZF) == 0)
 break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
 }
 }
}

```

```

M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
 /* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 if (M.x86.mode & SYSMODE_PREFIX_DATA) {
 val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
 cmp_long(M.x86.R_EAX, val);
@@ -2977,10 +3034,15 @@
 val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
 cmp_word(M.x86.R_AX, (u16)val);
 }
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
 M.x86.R_DI += inc;
 if (ACCESS_FLAG(F_ZF))
 break; /* zero flag set means equal */
+ if (M.x86.intr & INTR_HALTED)
+ break;
 }
 M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
 DECODE_PRINTF("RET\t");
 imm = fetch_word_imm();
 DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
 M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
 M.x86.R_SP += imm;
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
 START_OF_INSTR();
 DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
 M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();

```

```

}
@@ -3471,10 +3533,10 @@
 DECODE_PRINTF("RETFt");
 imm = fetch_word_imm();
 DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
 M.x86.R_IP = pop_word();
 M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
 M.x86.R_SP += imm;
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
 START_OF_INSTR();
 DECODE_PRINTF("RETFn");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
 M.x86.R_IP = pop_word();
 M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
 ip += (s16) M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", ip);
 TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
 M.x86.R_IP = ip;
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -4041,8 +4106,11 @@
 ip += (s16) M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", ip);
 TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;

```

```

+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
 M.x86.R_IP = ip;
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -4062,8 +4130,11 @@
 ip += (s16) M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", ip);
 TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
 M.x86.R_IP = ip;
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -4085,8 +4156,10 @@
 target = (u16)(M.x86.R_IP + offset);
 DECODE_PRINTF2("%x\n", target);
 TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
 M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
 ip = (s16)fetch_word_imm();
 ip += (s16)M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
 TRACE_AND_STEP();
 M.x86.R_IP = (u16)ip;
 DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
 cs = fetch_word_imm();
 DECODE_PRINTF2("%04x:", cs);
 DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
 TRACE_AND_STEP();
 M.x86.R_IP = ip;

```

```

M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;

```

Index: prim\_ops.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim\_ops.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

```

--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef __HAS_LONG_LONG__
- s64 res = (s64)d * (s64)s;
+ s64 res = (s64)(s32)d * (s64)(s32)s;

 *res_lo = (u32)res;
 *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef __HAS_LONG_LONG__
- u64 res = (u32)M.x86.R_EAX * (u32)s;
+ u64 res = (u64)M.x86.R_EAX * s;

 M.x86.R_EAX = (u32)res;
 M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
 }
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
 - /* in until CX is ZERO. */
 - u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
 + /* in until (E)CX is ZERO. */
 + u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
 M.x86.R_ECX : M.x86.R_CX);
 -
 while (count--) {
 single_in(size);
 M.x86.R_DI += inc;
 }
 M.x86.R_CX = 0;
 - if (M.x86.mode & SYSMODE_PREFIX_DATA) {
 + if (M.x86.mode & SYSMODE_32BIT_REP) {
 M.x86.R_ECX = 0;
 }
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
 }
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
 - /* out until CX is ZERO. */
 - u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
 + /* out until (E)CX is ZERO. */
 + u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?

```

```

 M.x86.R_ECX : M.x86.R_CX);
while (count--) {
 single_out(size);
 M.x86.R_SI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
 M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

```

Index: sys.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v

retrieving revision 1.1

retrieving revision 1.2

diff -u -u -r1.1 -r1.2

--- sys.c 7 Sep 2007 10:01:21 -0000 1.1

+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2

@@ -45,11 +45,6 @@

#include <x86emu/regs.h>

#include "debug.h"

#include "prim\_ops.h"

ifndef LINUXBIOS\_VERSION

#include "io.h"

else

#include <sys/io.h>

endif

ifdef IN\_MODULE

#include "xf86\_ansi.h"

@@ -220,7 +215,7 @@

{

DB(if (DEBUG\_IO\_TRACE())

printk("inb %#04x \n", addr);

- return inb(addr);

+ return 0;

}

\*\*\*\*\*

@@ -235,7 +230,7 @@

{

DB(if (DEBUG\_IO\_TRACE())

printk("inw %#04x \n", addr);

- return inw(addr);

+ return 0;

}

```
/******
```

```
@@ -250,7 +245,7 @@
```

```
{
DB(if (DEBUG_IO_TRACE()
printk("inl %#04x \n", addr);
- return inl(addr);
+ return 0;
}
```

```
/******
```

```
@@ -264,7 +259,6 @@
```

```
{
DB(if (DEBUG_IO_TRACE()
printk("outb %#02x -> %#04x \n", val, addr);
- outb(val, addr);
return;
}
```

```
@@ -279,7 +273,6 @@
```

```
{
DB(if (DEBUG_IO_TRACE()
printk("outw %#04x -> %#04x \n", val, addr);
- outw(val, addr);
return;
}
```

```
@@ -295,7 +288,6 @@
```

```
DB(if (DEBUG_IO_TRACE()
printk("outl %#08x -> %#04x \n", val, addr);

- outl(val, addr);
return;
}
```

```
@@ -405,6 +397,6 @@
```

```
void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
M.mem_size = size;
}
```

```
Index: include/x86emu/debug.h
```

```
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
```

```
retrieving revision 1.1
```

```
retrieving revision 1.4
```

```
diff -u -u -r1.1 -r1.4
```

```

--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*----- Macros and type definitions -----*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)
define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_F)
define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)
define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)
define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
define DEBUG_SYSINT() 0
define DEBUG_TRACECALL() 0
define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP() 0
+# define DEBUG_TRACEJMPREGS() 0
define DEBUG_SYS() 0
define DEBUG_MEM_TRACE() 0
define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
x86emu_dump_regs();
if (DEBUG_TRACECALL())
 printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS())
 x86emu_dump_regs();
if (DEBUG_TRACECALL())
- printk("%04x:%04x: %s\n",u,v,n);
+ printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+ if (DEBUG_TRACEJMPREGS()) \
+ x86emu_dump_regs(); \
+ if (DEBUG_TRACEJMP()) \
+ printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)

```

```

+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS |\
 SYSMODE_SEGOVR_SS |\
 SYSMODE_PREFIX_DATA |\
- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR |\
+ SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
 */
 u32 mode;
 volatile int intr; /* mask of pending interrupts */
- int debug;
+ volatile int debug;
#ifdef DEBUG
- int check;
+ int check;
 u16 saved_ip;
 u16 saved_cs;
 int enc_pos;
Index: include/x86emu/x86emu.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v

```

```

retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
} /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */

```

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#### History

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Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>

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Wed, 14 Nov 2001 17:05:56 -0700.

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## 1.311 libedit 2.11 4.20080712cvs.1.el6

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## 1.316 pyyaml 3.10-3.e16

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## 1.317 neon 0.29.6

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```
<one line to give the program's name and a brief idea of what it does.>
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```

```
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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.318 iproute 5.10.0-2

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see `init_nicstar()` for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (`skb->atm.iovcnt != 0`) for Rx skb's passed to `vcc->push`.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave `<small_buffer_data>` bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) `skb->destructor / skb->atm.recycle_buffer`

\* combined, allow `nicstar_free_rx_skb` to be called to

\* recycle large data buffers

\* 2) `skb_clone` of received buffers

\* See `nicstar_free_rx_skb` and `linearize_buffer` for implementation

\* details.  
\*  
\*  
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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
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Thanks go to the following people for patches and contributions:

Michael Hunold <[m.hunold@gmx.de](mailto:m.hunold@gmx.de)>  
for the initial saa7146 driver and its recent overhaul

Christian Theiss  
for his work on the initial Linux DVB driver

Marcus Metzler <[mocm@metzlerbros.de](mailto:mocm@metzlerbros.de)>  
Ralph Metzler <[rjkm@metzlerbros.de](mailto:rjkm@metzlerbros.de)>  
for their continuing work on the DVB driver

Michael Holzt <[kju@debian.org](mailto:kju@debian.org)>  
for his contributions to the dvb-net driver

Diego Picciani <[d.picciani@novacomp.it](mailto:d.picciani@novacomp.it)>  
for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <[martin@smurf.franken.de](mailto:martin@smurf.franken.de)>  
for patching the cable card decoder driver

Klaus Schmidinger <[Klaus.Schmidinger@cadsoft.de](mailto:Klaus.Schmidinger@cadsoft.de)>  
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <[sbrown@cortland.com](mailto:sbrown@cortland.com)>  
for his AFC kernel thread

Christoph Martin <[martin@uni-mainz.de](mailto:martin@uni-mainz.de)>  
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Wolfram Joost <[dbox2@frokaschwei.de](mailto:dbox2@frokaschwei.de)>  
...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>  
for many bugfixes

Andrew de Quincey <adq\_dvb@lidskialf.net>  
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>  
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>  
Roberto Ragusa <r.ragusa@libero.it>  
Augusto Cardoso <augusto@carhil.net>  
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>  
for his work on the budget drivers, the demux code,  
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>  
for his work on calculating and checking the crc's for the  
TechnoTrend/Hauppage DEC driver firmware

Michael Dreher <michael@5dot1.de>  
Andreas 'randy' Weinberger  
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>  
for adding support for Typhoon DVB-S budget card

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Michael Krufky <mkrufky@m1k.net>  
for maintaining v4l/dvb inter-tree dependencies

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Jean-Francois Thibert <jeanfrancois@sagetv.com>

for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>

for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

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End

# 1.324 gdbm 1.8.0 36.el6

## 1.324.1 Available under license :

```
libtool - Provide generalized library-building support services.
Generated automatically by $PROGRAM - GNU $PACKAGE $VERSION
NOTE: Changes made to this file will be lost: look at ltconfig or ltmain.sh.
#
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Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
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This program was configured as follows,
on host `(hostname || uname -n) 2>/dev/null | sed 1q`:
#
CC="$old_CC" CFLAGS="$old_CFLAGS" CPPFLAGS="$old_CPPFLAGS" \
LD="$old_LD" NM="$old_NM" RANLIB="$old_RANLIB" LN_S="$old_LN_S" \
0ltconfig_args
#
Compiler and other test output produced by $programe, useful for
debugging $programe, is in ./config.log if it exists.
install - install a program, script, or datafile
This comes from X11R5 (mit/util/scripts/install.sh).
#
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#
```

```
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```

```
#
```

```
Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.
```

```
#
```

```
This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs
```

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Version 2, June 1991

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## 1.325 libacpi 0.2

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## 1.332 procps 3.3.14-1+b1

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## 1.333 pciutils 3.7.0

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## 1.338 zlib 1.2.3 29.el6

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## 1.341 newt 2.3.2

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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Constant-time SSSE3 AES core implementation.
version 0.1

By Mike Hamburg (Stanford University), 2009
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For details see https://shiftright.org/papers/vector_aes/ and
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```
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## 1.350 shadow-utils 4.1.4.2-13.el6

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archive-REEhTXlZ/vixie-cron.spec  
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archive-REEhTXIZ/vixie-cron-4.1.tar.gz-cosi-expand-archive-FLGXheHx/vixie-cron-4.1/Makefile
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```

```
* /opt/ws_local/PERMITS_SQL/1044908564_1590050105.63/0/vixie-cron-4.1-10.EL3.src.rpm-cosi-expand-
archive-REEhTXlZ/vixie-cron-4.1.tar.gz-cosi-expand-archive-FLGXheHx/vixie-cron-4.1/cron.h
```

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* /opt/ws_local/PERMITS_SQL/1044908564_1590050105.63/0/vixie-cron-4.1-10.EL3.src.rpm-cosi-expand-
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* /opt/ws_local/PERMITS_SQL/1044908564_1590050105.63/0/vixie-cron-4.1-10.EL3.src.rpm-cosi-expand-
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* /opt/ws_local/PERMITS_SQL/1044908564_1590050105.63/0/vixie-cron-4.1-10.EL3.src.rpm-cosi-expand-
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```

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* /opt/ws_local/PERMITS_SQL/1044908564_1590050105.63/0/vixie-cron-4.1-10.EL3.src.rpm-cosi-expand-
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```

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* /opt/ws_local/PERMITS_SQL/1044908564_1590050105.63/0/vixie-cron-4.1-10.EL3.src.rpm-cosi-expand-
archive-REEhTXlZ/vixie-cron-4.1.tar.gz-cosi-expand-archive-FLGXheHx/vixie-cron-4.1/do_command.c
```

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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<one line to give the library's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!  
This package was debianized by Jean Pierre LeJacq  
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt  
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner  
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

Copyright (c) 1993 Alec Muffett <[alecm@crypto.dircon.co.uk](mailto:alecm@crypto.dircon.co.uk)>,  
Copyright (c) 2005-2009 Nathan Neulinger <[nneul@umr.edu](mailto:nneul@umr.edu)>,  
Copyright (c) 2008-2009 Jan Dittberner <[jan@dittberner.info](mailto:jan@dittberner.info)>

Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly  
> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=20Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license  
>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly  
>> and see if he wants to relicense his code as LGPL... but at this  
> point,  
>> it was enough to just get it consistent and documented as to what  
> it was  
>> released under. This wasn't actually a license change, just a  
>> clarification of the licensing that was already in place.  
>=20  
> the original license (before moving to sourceforge -- aka, 2.7) was  
> not  
> GPL-2 ... it was a modified artistic license ... i didnt notice the  
> license  
> change until it was mentioned in the latest notes.  
>=20  
> unlike the old license, GPL-2 prevents people from using cracklib  
> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code

(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.  
>>  
>> I am sympathetic. Guys, what do you reckon?  
>>  
>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...  
>  
> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.  
>  
> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using the library under a later version of the  
> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>  
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.

>>

>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
>> make the change now ?  
>  
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...  
-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----  
From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L

for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

-----  
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected  
in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively  
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly  
and see if he wants to relicense his code as LGPL... but at this point,  
it was enough to just get it consistent and documented as to what it was  
released under. This wasn't actually a license change, just a  
clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license  
>=20  
> On Monday 01 October 2007, Neulinger, Nathan wrote:  
> > I understand that, and you're welcome to bring it up with Alec  
> directly  
> > and see if he wants to relicense his code as LGPL... but at this

> point,  
>> it was enough to just get it consistent and documented as to what  
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>=20  
> unlike the old license, GPL-2 prevents people from using cracklib  
> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a

>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.  
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>> I am sympathetic. Guys, what do you reckon?  
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>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...  
>  
> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.  
>  
> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using the library under a later version of the  
> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>  
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.

>>

>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

>> make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----  
From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)

In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

## 1.360 libuser 0.60-9.el7

### 1.360.1 Available under license :

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on

the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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# 1.362 gconf 2.28.0 6.e16

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```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

## 1.363 hostapd 2.9

## 1.363.1 Available under license :

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-----

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Source code files were moved around in v0.6.x releases and compared to  
earlier releases, the programs are now built by first going to a  
subdirectory (wpa\_supplicant or hostapd) and creating build  
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\* hostapd / main()

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## 1.364 util-linux 2.21.1

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## 1.366 cairo 1.8.8 3.1.e16

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## 1.367 zlib 1.2.8

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

## 1.368 tcl 8.5.11

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# 1.369 libtool 2.2.6 15.5.el6

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## 1.370 pcre 8.21

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THE BASIC LIBRARY FUNCTIONS

-----

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## 1.376 popt 1.13

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## 1.377 talloc 2.3.2

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```

Found in path(s):

```
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-jar/org/xipki/audit/AuditEvent.java
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-jar/org/xipki/audit/PciAuditEvent.java
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-
jar/org/xipki/audit/AuditServiceRuntimeException.java
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-jar/org/xipki/audit/package-info.java
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-jar/org/xipki/audit/Audits.java
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-jar/org/xipki/audit/services/package-
info.java
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-jar/org/xipki/audit/AuditService.java
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-jar/org/xipki/audit/AuditLevel.java
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-jar/org/xipki/audit/AuditStatus.java
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-
jar/org/xipki/audit/services/EmbedAuditService.java
* /opt/cola/permits/1122719518_1610552281.07/0/audit-5-3-11-sources-jar/org/xipki/audit/AuditEventData.java
```

## 1.379 avahi 0.8

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Version 2.1, February 1999

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\* Jamie Beverly

\* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT

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# 1.385 kerberos 1.18.3

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
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lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
```

lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
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lib/libgss/gssd\_pname\_to\_uid.c  
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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c

lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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## 1.387 rsync 3.0.6

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Version 3, 29 June 2007

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/* CMU libsasl
```

```
* Tim Martin
```

```
* Rob Earhart
```

```
* Rob Siemborski
```

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*/
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/*
```

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-- Tom St Denis

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./.gitignore X 2009
./ChangeLog X 2003,2004,2005,2006,2007
./LICENSE X 2003,2004,2005,2006,2007
./MANIFEST.in X 2003,2004,2005,2006,2007
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Version 3, 29 June 2007

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```
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## 1.393 dc 1.3

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```
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```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/ViewController.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/Tests/Example_SwiftTests.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
```

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```
<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left" horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines" minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">
```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/Base.lproj/LaunchScreen.xib
```

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```
<string>The DCPathButton use the MIT license</string>
```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
```

DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-

DCPathButton-39be410/Example/Example/BarButtonItemViewController.h

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Pod::Spec.new do |s|

s.name = "DCPathButton"

s.version = "2.1.1"

s.summary = " A beautiful button copy from Path@ "

s.description = <<-DESC

DCPathButton is a menu button, design by an famous App Path@.

Since Path@ 4.0, it return to use a tab bar instead of a side bar,

and also change the menu button. So I try to implement it and then

the DCPathButton born :)

DESC

s.homepage = "https://github.com/Tangdixi/DCPathButton"

s.license = {

:type => 'MIT',

:text => 'The DCPathButton use the MIT license'

}

s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform = :ios, '7.0'

s.source = {

:git => "https://github.com/Tangdixi/DCPathButton.git",

:tag => "2.1.1"

}

s.source\_files = 'DCPathButton/Classes/\*.{h,m}'

s.resources = ["DCPathButton/Sounds/\*"]

s.frameworks = 'QuartzCore','AudioToolbox'

s.requires\_arc = true

end

Found in path(s):

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-

DCPathButton-39be410/DCPathButton.podspec

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#### # Acknowledgements

This application makes use of the following third party libraries:

#### ## DCPATHButton

The DCPATHButton use the MIT license

Generated by CocoaPods - <http://cocoapods.org>

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\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example/ExampleTests/ExampleTests.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example/Pods/DCPATHButton/DCPATHButton/Classes/DCPATHItemButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example/Example/ViewController.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example/Example/ViewController.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example-Swift/DCPATHButton/Classes/DCPATHButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/DCPATHButton/Classes/DCPATHButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example/Example/main.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example-Swift/DCPATHButton/Classes/DCPATHButton.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/DCPATHButton/Classes/DCPATHButton.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-

DCPathButton-39be410/Example/Example/AppDelegate.m  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.h  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.h  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m  
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## 1.394 libyaml 0.1.3-1.el6

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## 1.395 tcp-wrappers 7.6.28

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@heading END OF TERMS AND CONDITIONS  
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@page  
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```
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```

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```
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```

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@example

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

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- + trivial database library - standalone version

- trivial database library - private includes
- 
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Theodore Ts'o  
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That's all there is to it!

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
[tsx-11.mit.edu:/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu:/pub/linux/packages/ext2fs/)

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#

# This is a Makefile stub which handles the creation of BSD shared libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

This is the Debian GNU/Linux repackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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Gadi Oxman, August 1995

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk,  
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,  
except the first one, were first implemented in the Buildtool project.  
They were later adapted to be part of Boost.Process and, during that  
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-->

<!-- Id -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
 <xsl:text>
</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '
')"/>
 <xsl:if test="translate($rest, '	 ', '')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
 </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
 <xsl:text>
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 License, v. 2.0. If a copy of the MPL was not distributed with this
 file, You can obtain one at http://mozilla.org/MPL/2.0/.
 </xsl:text>
 </xsl:variable>

```

```

</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:

- mode: sgml

- End:

-->

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#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----  
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# 1.410 zlib 1.2.7

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

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