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### **3.41 dosfstools 3.0.28 :r0**

3.41.1 Available under license

### **3.42 dtc 1.4.1+gitAUTOINC+302fca9f4c :r0**

3.42.1 Available under license

### **3.43 e2fsprogs 1.42.99+1.43+gitAUTOINC+0f26747167 :r0**

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3.44.1 Available under license

### **3.45 elfutils 0.170 :r0**

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- 3.47 ethtool 4.2 :r0**
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- 3.48 expat 2.1.0 :r0**
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- 3.49 file 5.25 :r0**
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- 3.50 findutils 4.6.0 :r0**
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- 3.51 flac 1.3.1 :r0**
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- 3.52 flex 2.6.0 :r0**
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- 3.53 fontconfig 2.11.94 :r0**
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- 3.54 freetype 2.6.3 :r0**
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- 3.55 gawk 4.1.3 :r0**
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- 3.56 gconf 3.2.6 :r0**
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- 3.57 gdb 7.10.1 :r0**
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- 3.58 gdbm 1.11 :r0**
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- 3.59 gettext 0.19.6 :r0**
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- 3.60 glib-2.0 2.46.2 :r0**
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- 3.61 glibc 2.23 :r0**
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- 3.62 gmp 6.1.0 :r0**
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- 3.63 gnome-desktop-testing 2014.1 :r1**
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- 3.64 gnulib git :r0**
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- 3.65 gnutls 3.4.9 :r0**
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### **3.66 gobject-introspection 1.46.0 :r0**

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### **3.68 grep 2.23 :r0**

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- 3.87 keymaps 1.0 :r31**
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- 3.88 kmod 22+gitAUTOINC+42f32b8ae4 :r0**
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- 3.89 less 481 :r0**
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- 3.90 libacpi 0.2 :r6**
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- 3.91 libarchive 3.1.2 :r0**
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- 3.92 libatomic-ops 7.4.2 :r0**
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- 3.93 libbsd 0.8.2 :r0**
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- 3.94 libcap 2.24 :r0**
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- 3.95 libcap-ng 0.7.7 :r0**
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- 3.153 lmsensors-config 1.0 :r0**
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- 3.168 ncurses 6.0+20160213 :r0**
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- 3.172 netcat-openbsd 1.105 :r0**
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**3.201 psmisc 22.21 :r0.2**

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- 3.208 python-cryptography-vectors 1.1 :r0**
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- 3.238 sed 4.2.2 :r0.3**
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- 3.252 speexdsp 1.2rc3 :r0**
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- 3.253 sqlite3 3.11.0 :r0**
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- 3.254 squashfs-tools 4.3+gitAUTOINC+9c1db6d13a :r0**
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- 3.256 strace 4.11 :r0**
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**3.265 tcpdump 4.7.4 :r0**  
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**3.279 xcheck 1.0 :r0**  
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**3.281 xz 5.2.2 :r0**

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# 1.1 acl 2.2.51 :14

## 1.1.1 Available under license :

This package was debianized by Nathan Scott nathans@debian.org on  
Tue, 26 Feb 2002 13:25:26 +1100

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## 1.2 amzn-drivers-ena r1.1.3

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```
#ifndef _FDT_H
```

```
#define _FDT_H
```

```
/*
```

```
* libfdt - Flat Device Tree manipulation
```

```
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```

```
* Copyright 2012 Kim Phillips, Freescale Semiconductor.
```

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*
```

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```

```

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```

```

#ifndef __ASSEMBLY__

```

```

#include <libfdt_env.h>

```

```

struct fdt_header {
    fdt32_t magic; /* magic word FDT_MAGIC */
    fdt32_t totalsize; /* total size of DT block */
    fdt32_t off_dt_struct; /* offset to structure */
    fdt32_t off_dt_strings; /* offset to strings */
    fdt32_t off_mem_rsvmap; /* offset to memory reserve map */
    fdt32_t version; /* format version */
    fdt32_t last_comp_version; /* last compatible version */

    /* version 2 fields below */
    fdt32_t boot_cpuid_phys; /* Which physical CPU id we're
        booting on */

```

```

/* version 3 fields below */
fdt32_t size_dt_strings; /* size of the strings block */

/* version 17 fields below */
fdt32_t size_dt_struct; /* size of the structure block */
};

struct fdt_reserve_entry {
    fdt64_t address;
    fdt64_t size;
};

struct fdt_node_header {
    fdt32_t tag;
    char name[];
};

struct fdt_property {
    fdt32_t tag;
    fdt32_t len;
    fdt32_t nameoff;
    char data[];
};

#endif /* !__ASSEMBLY */

#define FDT_MAGIC 0xd00dfeed /* 4: version, 4: total size */
#define FDT_TAGSIZE sizeof(fdt32_t)

#define FDT_BEGIN_NODE 0x1 /* Start node: full name */
#define FDT_END_NODE 0x2 /* End node */
#define FDT_PROP 0x3 /* Property: name off,
    size, content */
#define FDT_NOP 0x4 /* nop */
#define FDT_END 0x9

#define FDT_V1_SIZE (7*sizeof(fdt32_t))
#define FDT_V2_SIZE (FDT_V1_SIZE + sizeof(fdt32_t))
#define FDT_V3_SIZE (FDT_V2_SIZE + sizeof(fdt32_t))
#define FDT_V16_SIZE FDT_V3_SIZE
#define FDT_V17_SIZE (FDT_V16_SIZE + sizeof(fdt32_t))

#endif /* _FDT_H */
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```

```

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*/
#include "libfdt_env.h"

#include <fdt.h>

```

```

#include <libfdt.h>

#include "libfdt_internal.h"

int fdt_check_header(const void *fdt)
{
    if (fdt_magic(fdt) == FDT_MAGIC) {
        /* Complete tree */
        if (fdt_version(fdt) < FDT_FIRST_SUPPORTED_VERSION)
            return -FDT_ERR_BADVERSION;
        if (fdt_last_comp_version(fdt) > FDT_LAST_SUPPORTED_VERSION)
            return -FDT_ERR_BADVERSION;
    } else if (fdt_magic(fdt) == FDT_SW_MAGIC) {
        /* Unfinished sequential-write blob */
        if (fdt_size_dt_struct(fdt) == 0)
            return -FDT_ERR_BADSTATE;
    } else {
        return -FDT_ERR_BADMAGIC;
    }

    return 0;
}

const void *fdt_offset_ptr(const void *fdt, int offset, unsigned int len)
{
    const char *p;

    if (fdt_version(fdt) >= 0x11)
        if (((offset + len) < offset)
            || ((offset + len) > fdt_size_dt_struct(fdt)))
            return NULL;

    p = _fdt_offset_ptr(fdt, offset);

    if (p + len < p)
        return NULL;
    return p;
}

uint32_t fdt_next_tag(const void *fdt, int startoffset, int *nextoffset)
{
    const fdt32_t *tagp, *lenp;
    uint32_t tag;
    int offset = startoffset;
    const char *p;

    *nextoffset = -FDT_ERR_TRUNCATED;
    tagp = fdt_offset_ptr(fdt, offset, FDT_TAGSIZE);

```

```

if (!tagp)
    return FDT_END; /* premature end */
tag = fdt32_to_cpu(*tagp);
offset += FDT_TAGSIZE;

*nextoffset = -FDT_ERR_BADSTRUCTURE;
switch (tag) {
case FDT_BEGIN_NODE:
    /* skip name */
    do {
        p = fdt_offset_ptr(fdt, offset++, 1);
    } while (p && (*p != '\0'));
    if (!p)
        return FDT_END; /* premature end */
    break;

case FDT_PROP:
    lenp = fdt_offset_ptr(fdt, offset, sizeof(*lenp));
    if (!lenp)
        return FDT_END; /* premature end */
    /* skip-name offset, length and value */
    offset += sizeof(struct fdt_property) - FDT_TAGSIZE
        + fdt32_to_cpu(*lenp);
    break;

case FDT_END:
case FDT_END_NODE:
case FDT_NOP:
    break;

default:
    return FDT_END;
}

if (!fdt_offset_ptr(fdt, startoffset, offset - startoffset))
    return FDT_END; /* premature end */

*nextoffset = FDT_TAGALIGN(offset);
return tag;
}

int _fdt_check_node_offset(const void *fdt, int offset)
{
    if ((offset < 0) || (offset % FDT_TAGSIZE)
        || (fdt_next_tag(fdt, offset, &offset) != FDT_BEGIN_NODE))
        return -FDT_ERR_BADOFFSET;

    return offset;
}

```

```

}

int _fdt_check_prop_offset(const void *fdt, int offset)
{
    if ((offset < 0) || (offset % FDT_TAGSIZE)
        || (fdt_next_tag(fdt, offset, &offset) != FDT_PROP))
        return -FDT_ERR_BADOFFSET;

    return offset;
}

int fdt_next_node(const void *fdt, int offset, int *depth)
{
    int nextoffset = 0;
    uint32_t tag;

    if (offset >= 0)
        if ((nextoffset = _fdt_check_node_offset(fdt, offset)) < 0)
            return nextoffset;

    do {
        offset = nextoffset;
        tag = fdt_next_tag(fdt, offset, &nextoffset);

        switch (tag) {
            case FDT_PROP:
            case FDT_NOP:
                break;

            case FDT_BEGIN_NODE:
                if (depth)
                    (*depth)++;
                break;

            case FDT_END_NODE:
                if (depth && (--(*depth)) < 0)
                    return nextoffset;
                break;

            case FDT_END:
                if ((nextoffset >= 0)
                    || ((nextoffset == -FDT_ERR_TRUNCATED) && !depth))
                    return -FDT_ERR_NOTFOUND;
                else
                    return nextoffset;
        }
    } while (tag != FDT_BEGIN_NODE);
}

```



```

return offset;
}

int fdt_first_subnode(const void *fdt, int offset)
{
int depth = 0;

offset = fdt_next_node(fdt, offset, &depth);
if (offset < 0 || depth != 1)
return -FDT_ERR_NOTFOUND;

return offset;
}

int fdt_next_subnode(const void *fdt, int offset)
{
int depth = 1;

/*
 * With respect to the parent, the depth of the next subnode will be
 * the same as the last.
 */
do {
offset = fdt_next_node(fdt, offset, &depth);
if (offset < 0 || depth < 1)
return -FDT_ERR_NOTFOUND;
} while (depth > 1);

return offset;
}

const char *_fdt_find_string(const char *strtab, int tabsize, const char *s)
{
int len = strlen(s) + 1;
const char *last = strtab + tabsize - len;
const char *p;

for (p = strtab; p <= last; p++)
if (memcmp(p, s, len) == 0)
return p;
return NULL;
}

int fdt_move(const void *fdt, void *buf, int bufsize)
{
FDT_CHECK_HEADER(fdt);

if (fdt_totalsize(fdt) > bufsize)

```

```

return -FDT_ERR_NOSPACE;

memmove(buf, fdt, fdt_totalsize(fdt));
return 0;
}
#
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#

LIBFDT_SRCS := $(addprefix lib/libfdt/, \
    fdt.c \
    fdt_addresses.c \
    fdt_empty_tree.c \
    fdt_ro.c \
    fdt_rw.c \
    fdt_strerror.c \
    fdt_sw.c \
    fdt_wip.c) \

INCLUDES += -Iinclude/lib/libfdt

```

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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

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id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from specdt@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 specdt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <specdt@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
From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
```



Return-Path: friedman@cli.com

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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. :-)

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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 state 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) <year> <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

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```
<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  
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, your program's commands might be different; for a GUI interface, you would use an "about box".

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## 1.8 binutils 2.23.52.0.1 :30.e17\_1.1

### 1.8.1 Available under license :

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The precise terms and conditions for copying, distribution and



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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

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```
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This is free software, and you are welcome to redistribute it
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```

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:

```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Version 2, June 1991
```

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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.

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.

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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.

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.

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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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@c ispell-local-pdict: "ispell-dict"

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(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.

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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.

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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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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 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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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 @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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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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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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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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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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```

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```

```
// this module is derived from simplexml.cpp - an example shipped as part of
```

```
// the spirit parser. This example contains the following notice:
```

```
/*=====
```

```
simplexml.cpp
```

```
Spirit V1.3
```

```
URL: http://spirit.sourceforge.net/
```

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Fri Aug 15 16:29:47 EDT 1997

Harwell-Boeing File I/O in C

V. 1.0

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```
+++++
/* Boost example/findroot_demo.cpp
 * find zero points of some function by dichotomy
 *
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\* 2009-10-04, guwi17: modified and extended to meet uBLAS' needs

\*/

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Boost.Wave: A Standard compliant C++ preprocessor library

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/\* Boehm, May 13, 1994 9:50 am PDT \*/

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\*/

/\* A Bison parser, made by GNU Bison 1.875. \*/

/\* Skeleton parser for Yacc-like parsing with Bison,

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L. Peter Deutsch  
ghost@aladdin.com

\*/

/\*

\* regcomp and regexec -- regsub and regerror are elsewhere

\*

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```

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*** hoptoad!gnu, on 27 Dec 1986, to add \n as an alternative to |
*** to assist in implementing egrep.
*** THIS IS AN ALTERED VERSION. It was altered by John Gilmore,
*** hoptoad!gnu, on 27 Dec 1986, to add \< and \> for word-matching
*** as in BSD grep and ex.
*** THIS IS AN ALTERED VERSION. It was altered by John Gilmore,
*** hoptoad!gnu, on 28 Dec 1986, to optimize characters quoted with \.
*** THIS IS AN ALTERED VERSION. It was altered by James A. Woods,
*** ames!jaw, on 19 June 1987, to quash a regcomp() redundancy.
*** THIS IS AN ALTERED VERSION. It was altered by Christopher Seiwald
*** seiwald@vix.com, on 28 August 1993, for use in jam. Regmagic.h
*** was moved into regexp.h, and the include of regexp.h now uses "'s
*** to avoid conflicting with the system regexp.h. Const, bless its
*** soul, was removed so it can compile everywhere. The declaration
*** of strchr() was in conflict on AIX, so it was removed (as it is
*** happily defined in string.h).
*** THIS IS AN ALTERED VERSION. It was altered by Christopher Seiwald
*** seiwald@perforce.com, on 20 January 2000, to use function prototypes.
*
* Beware that some of this code is subtly aware of the way operator precedence
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* syntax might require a total rethink.
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```

# 1.10 bzip2 1.0.6 :12.e17

## 1.10.1 Available under license :

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---

# 1.11 ca-certificates 2014.1.98 :72.el7

## 1.11.1 Available under license :

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# 1.12 centos-release 7 :1.1503.el7.centos.2.8

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# -\*- coding: utf-8 -\*-

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:

The Red Hat developers, without whom CentOS would look very different

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## 1.15 coreutils 8.22 :11.el7

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## 1.16 cpio 2.11 :24.e17

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# 1.17 cracklib 2.9.0 :11.e17

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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  
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> > released under. This wasn't actually a license change, just a  
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>=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

```
#!/usr/bin/python
# Copyright 2009, 2012 Jan Dittberner <jan@dittberner.info>
#
# This file is part of cracklib.
#
# cracklib is free software; you can redistribute it and/or modify it
```

```
# under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# cracklib is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with Prua; if not, write to the Free Software Foundation,
# Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
```

## 1.18 cronie 1.4.11 :13.el7

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```
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 */
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\*

\*/

/\*

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\*

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\*

\* @(#)bitstring.h 8.1 (Berkeley) 7/19/93

\*/

# 1.19 cryptography 1.7.2

## 1.19.1 Available under license :

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## 1.21 curl 7.29.0 :42.el7\_4.1

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GnuTLS <http://www.gnutls.org/>

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yassl <http://www.yassl.com/>

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(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.

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## 1.22 cyrus-sasl 2.1.26 :17.el7

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\* Tim Martin

\* Rob Earhart

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# 1.23 cyrus-sasl/libdes 2.1.26 :17.e17

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## 1.25 device-mapper-multipath 0.4.9 :111.e17

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## 1.29 e2fsprogs 1.42.9 :7.e17

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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): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(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)
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
- 
- Copyright (C) Andrew Tridgell            2005
- + Copyright (C) Andrew Tridgell            1999-2005
- + Copyright (C) Jeremy Allison            2000-2006
- + Copyright (C) Paul `Rusty' Russell      2000

\*\* NOTE! The following LGPL license applies to the tdb  
 \*\* library. This does NOT imply that all of Samba is released  
 #!/bin/sh

```
find . -type f \! -name \*~ \! -exec grep -q Begin-Header \{\} \; -print \
| grep -v ^./build
```

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Gadi Oxman, August 1995

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```
<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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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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Theodore Ts'o  
23-June-2007

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Version 2, June 1991

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```

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Also add information on how to contact you by electronic and paper mail.

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```
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under certain conditions; type `show c' for details.
```

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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 program, if necessary. Here is a sample; alter the names:

```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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## 1.30 enum34 1.1.6

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## 1.34 EZdriver NP 5c, loadable kernel module

### 14.44 :XE3.16

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# 1.36 findutils 4.5.11 :3.e17

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## 1.37 fipscheck 1.4.1 :5.e17

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## 1.38 gawk 4.0.2 :4.e17

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# 1.39 gcc 4.8.3 :9.e17

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Version 2.1, February 1999

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Version 2.1, February 1999

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```
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```

```
# <http://www.gnu.org/licenses/>.
```

```
# 128 bit long double support was introduced with GCC 4.6.0 for FreeBSD.
```

```
# These lines make the symbols to get a @@GCC_4.6.0.
```

```
%exclude {
```

```
__addtf3
```

```
__copysigntf3
```

```
__divtc3
```

```
__divtf3
```

```
__eqtf2
```

```
__extenddf2
```

```
__extendsftf2
```

```
__extendxftf2
```

```
__fabstf2
```

```
__fixtfdi
```

```
__fixtfsi
```

```
__fixtfti
```

```
__fixunstfdi
```

```
__fixunstfsi
```

```
__fixunstfti
```

```
__floatditf
__floatsitf
__floattitf
__floatunditf
__floatunsitf
__floatuntitf
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctfdf2
__trunctfsf2
__trunctxf2
__unordtf2
}
```

```
GCC_4.6.0 {
__addtf3
#ifdef __x86_64__
__copysigntf3
#endif
__divtc3
__divtf3
__eqtf2
__extenddf2
__extendsf2
__extendxf2
#ifdef __x86_64__
__fabstf2
#endif
__fixtfdi
__fixtfsi
#ifdef __x86_64__
__fixtfti
#endif
__fixunstfdi
__fixunstfsi
#ifdef __x86_64__
__fixunstfti
#endif
__floatditf
__floatsitf
```

```

#ifdef __x86_64__
    __floattinf
#endif
    __floatundinf
    __floatunsnan
#ifdef __x86_64__
    __floatuntnan
#endif
    __getf2
    __gttf2
    __letf2
    __lttf2
    __multc3
    __multf3
    __negtf2
    __netf2
    __powtf2
    __subtf3
    __truncdf2
    __trunctfsf2
    __trunctxf2
    __unordtf2
}

GCC_4.8.0 {
    __cpu_model
    __cpu_indicator_init
}

```

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Version 2.1, February 1999

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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.)

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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`@iftex`

`@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION`

`@end iftex`

`@ifinfo`

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@page

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gfdl

@settitle GNU Free Documentation License

@c man begin SEEALSO

gpl(7), fsf-funding(7).

@c man end

@c man begin COPYRIGHT

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@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

@c man end

@end ignore

@c Special handling for inclusion in the install manual.

@ifset gfdlhtml

@ifnohtml

@comment node-name, next, previous, up

@node GNU Free Documentation License, Concept Index, Old, Top

@end ifnohtml

@html

<h1 align="center">Installing GCC: GNU Free Documentation License</h1>

@end html

@ifnohtml

@unnumbered GNU Free Documentation License

@end ifnohtml

@end ifset

@c man begin DESCRIPTION

@ifclear gfdlhtml

@node GNU Free Documentation License

@unnumbered GNU Free Documentation License

@end ifclear

@cindex FDL, GNU Free Documentation License

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## 1.41 glib2 2.40.0 :4.e17

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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.

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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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- 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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## 1.42 glibc 2.17 :106.el7\_2.8

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Version 2, June 1991

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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.

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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.
- 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.

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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.

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.

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```
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@unnumberedsec TERMS AND CONDITIONS
@end iftex
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@enumerate 0
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@example

@var{one line to give the program's name and a brief idea of what it does.}

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@end example

@noindent

Also add information on how to contact you by electronic and paper mail.

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@smallexample

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## 1.45 Gobi Drivers SWI\_2.25

### 1.45.1 Available under license :

```
/*=====
```

FILE:

GobiSerial.c

DESCRIPTION:

Linux Qualcomm Serial USB driver Implementation

PUBLIC DRIVER FUNCTIONS:

GobiProbe

GobiOpen

GobiClose

GobiReadBulkCallback

GobiSerialSuspend

GobiSerialResume (if kernel is less than 2.6.24)

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```
/*=====
```

FILE:

GobiUSBNet.c

DESCRIPTION:

Qualcomm USB Network device for Gobi 3000

## FUNCTIONS:

GobiNetSuspend  
GobiNetResume  
GobiNetDriverBind  
GobiNetDriverUnbind  
GobiUSBNetURBCallback  
GobiUSBNetTXTimeout  
GobiUSBNetAutoPMThread  
GobiUSBNetStartXmit  
GobiUSBNetOpen  
GobiUSBNetStop  
GobiUSBNetProbe  
GobiUSBNetModInit  
GobiUSBNetModExit

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# 1.46 gpgme 1.3.2 :5.el7

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```

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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



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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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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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```
@iftex
@section TERMS AND CONDITIONS
@end iftex
@ifinfo
@center TERMS AND CONDITIONS
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@enumerate 0
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```

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## 1.48 grep 2.20 :2.el7

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## 1.49 gzip 1.5 :7.el7

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Version 3, 29 June 2007

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```

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```
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## 1.50 hardlink 1.0 :19.el7

### 1.50.1 Available under license :

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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```
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```

```
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```

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## 1.59 json-c 0.11 :4.e17\_0

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## 1.60 keyutils 1.5.8 :3.e17

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## 1.61 keyutils\_GPLv2 1.5.8 :3.el7

### 1.61.1 Available under license :

```
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```

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```

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```

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```
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```

```
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cmd/krb5/ipropl/ipropl.x  
cmd/krb5/ipropl/ipropl\_hdr.h  
cmd/krb5/kadmin/server/ipropld\_svc.c  
cmd/krb5/kproplog/kproplog.c  
cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
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  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
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  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c

lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

- 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

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.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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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

@end display

@appendixsubsec 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 Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, 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

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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.

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.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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 Public License permits more lax criteria for linking other code with

the library.

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.

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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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.)

@end enumerate

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

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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.

@item

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.

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.

#### @item

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.)

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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.

@end enumerate

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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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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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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@appendixsubsec 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.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02110-1301, USA.

@end smallexample

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:

@smallexample

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample



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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  
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code. If you link other code with the library, you must provide  
complete object files to the recipients, so that they can relink them  
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it. And you must show them these terms so they know their rights.

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.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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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.

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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.
- 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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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.

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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

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For example, on rare occasions, there may be a special need to

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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

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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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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.

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- 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".
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- 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

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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.

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```
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```
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```

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Version 2, June 1991

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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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## 1.83 libsepol 2.1.9 :3.el7

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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.

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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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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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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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## 1.86 libuser 0.60 :5.el7

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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.

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.

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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 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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## 1.87 libutempter 1.1.6 :4.e17

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\*  
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## 1.92 lua 5.1.4 :14.e17

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## 1.93 lvm2 2.02.171 :8.e17

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## 1.96 make 3.82 :21.e17

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```
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# 1.100 ncurses 5.9 :13.20130511.el7

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# 1.101 net-tools 2.0 :0.17.20131004git.el7

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# 1.102 netmap 20120813

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## 1.103 netmap-for-armada 17.02.0

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*/
```

```
/*  
* $Id: if_igb_netmap.h 10878 2012-04-12 22:28:48Z luigi $  
*  
* netmap support for: igb (linux version)  
* For details on netmap support please see ixgbe_netmap.h  
*/
```

```
#include <bsd_glue.h>  
#include <net/netmap.h>  
#include <netmap/netmap_kern.h>
```

```
#define SOFTC_T igb_adapter
```

```

#define igb_driver_name netmap_igb_driver_name
char netmap_igb_driver_name[] = "igb" NETMAP_LINUX_DRIVER_SUFFIX;

/*
 * Adapt to different versions of the driver.
 * E1000_TX_DESC_ADV etc. have dropped the _ADV suffix at some point.
 * Also the first argument is now a pointer not the object.
 */
#ifndef E1000_TX_DESC_ADV
#define E1000_TX_DESC_ADV(_r, _i) IGB_TX_DESC(&(_r), _i)
#define E1000_RX_DESC_ADV(_r, _i) IGB_RX_DESC(&(_r), _i)
#define READ_TDH(_txr) ({struct e1000_hw *hw = &adapter->hw;rd32(E1000_TDH((_txr)->reg_idx));})
#else /* up to 3.2, approximately */
#define igb_tx_buffer igb_buffer
#define tx_buffer_info buffer_info
#define igb_rx_buffer igb_buffer
#define rx_buffer_info buffer_info
#define READ_TDH(_txr) readl((_txr)->head)
#endif

/*
 * Register/unregister. We are already under netmap lock.
 * Only called on the first register or the last unregister.
 */
static int
igb_netmap_reg(struct netmap_adapter *na, int onoff)
{
    struct ifnet *ifp = na->ifp;
    struct SOFTC_T *adapter = netdev_priv(ifp);

    /* protect against other reinit */
    while (test_and_set_bit(__IGB_RESETTING, &adapter->state))
        usleep_range(1000, 2000);

    if (netif_running(adapter->netdev))
        igb_down(adapter);

    /* enable or disable flags and callbacks in na and ifp */
    if (onoff) {
        nm_set_native_flags(na);
    } else {
        nm_clear_native_flags(na);
    }
    if (netif_running(adapter->netdev))
        igb_up(adapter);
    else
        igb_reset(adapter); // XXX is it needed ?
}

```

```

clear_bit(__IGB_RESETTING, &adapter->state);
return (0);
}

/*
 * Reconcile kernel and user view of the transmit ring.
 */
static int
igb_netmap_txsync(struct netmap_kring *kring, int flags)
{
    struct netmap_adapter *na = kring->na;
    struct ifnet *ifp = na->ifp;
    struct netmap_ring *ring = kring->ring;
    u_int ring_nr = kring->ring_id;
    u_int nm_i; /* index into the netmap ring */
    u_int nic_i; /* index into the NIC ring */
    u_int n;
    u_int const lim = kring->nkr_num_slots - 1;
    u_int const head = kring->rhead;
    /* generate an interrupt approximately every half ring */
    u_int report_frequency = kring->nkr_num_slots >> 1;

    /* device-specific */
    struct SOFTC_T *adapter = netdev_priv(ifp);
    struct igb_ring* txr = adapter->tx_ring[ring_nr];

    rmb(); // XXX not in ixgbe ?

    /*
     * First part: process new packets to send.
     */
    if (!netif_carrier_ok(ifp)) {
        goto out;
    }

    nm_i = kring->nr_hwcur;
    if (nm_i != head) { /* we have new packets to send */
        uint32_t olinfo_status=0;

        nic_i = netmap_idx_k2n(kring, nm_i);
        for (n = 0; nm_i != head; n++) {
            struct netmap_slot *slot = &ring->slot[nm_i];
            u_int len = slot->len;
            uint64_t paddr;
            void *addr = PNMB(na, slot, &paddr);

```

```

/* device-specific */
union e1000_adv_tx_desc *curr =
    E1000_TX_DESC_ADV(*txr, nic_i);
int flags = (slot->flags & NS_REPORT ||
    nic_i == 0 || nic_i == report_frequency) ?
    E1000_TXD_CMD_RS : 0;

NM_CHECK_ADDR_LEN(na, addr, len);

if (slot->flags & NS_BUF_CHANGED) {
    /* buffer has changed, reload map */
    // netmap_reload_map(pdev, DMA_TO_DEVICE, old_paddr, addr);
}
slot->flags &= ~(NS_REPORT | NS_BUF_CHANGED);

/* Fill the slot in the NIC ring. */
curr->read.buffer_addr = htobe64(paddr);
// XXX check olinfo and cmd_type_len
curr->read.olinfo_status =
    htobe32(olinfo_status |
        (len << E1000_ADVTXD_PAYLEN_SHIFT));
curr->read.cmd_type_len = htobe32(len | flags |
    E1000_ADVTXD_DTYP_DATA | E1000_ADVTXD_DCMD_DEXT |
    E1000_ADVTXD_DCMD_IFCS | E1000_TXD_CMD_EOP);
nm_i = nm_next(nm_i, lim);
nic_i = nm_next(nic_i, lim);
}
kring->nr_hwcur = head;

wmb(); /* synchronize writes to the NIC ring */

txr->next_to_use = nic_i; /* XXX what for ? */
/* (re)start the tx unit up to slot nic_i (excluded) */
writel(nic_i, txr->tail);
mmiowb(); // XXX where do we need this ?
}

/*
 * Second part: reclaim buffers for completed transmissions.
 */
if (flags & NAF_FORCE_RECLAIM || nm_kr_txempty(kring)) {
    /* record completed transmissions using TDH */
    nic_i = READ_TDH(txr);
    if (nic_i >= kring->nkr_num_slots) { /* XXX can it happen ? */
        D("TDH wrap %d", nic_i);
        nic_i -= kring->nkr_num_slots;
    }
    txr->next_to_use = nic_i;
}

```

```

    kring->nr_hwtail = nm_prev(netmap_idx_n2k(kring, nic_i), lim);
}
out:

return 0;
}

/*
 * Reconcile kernel and user view of the receive ring.
 */
static int
igb_netmap_rxsync(struct netmap_kring *kring, int flags)
{
    struct netmap_adapter *na = kring->na;
    struct ifnet *ifp = na->ifp;
    struct netmap_ring *ring = kring->ring;
    u_int ring_nr = kring->ring_id;
    u_int nm_i; /* index into the netmap ring */
    u_int nic_i; /* index into the NIC ring */
    u_int n;
    u_int const lim = kring->nkr_num_slots - 1;
    u_int const head = kring->rhead;
    int force_update = (flags & NAF_FORCE_READ) || kring->nr_kflags & NKR_PENDINTR;

    /* device-specific */
    struct SOFTC_T *adapter = netdev_priv(ifp);
    struct igb_ring *rxr = adapter->rx_ring[ring_nr];

    if (!netif_carrier_ok(ifp))
        return 0;

    if (head > lim)
        return netmap_ring_reinit(kring);

    rmb();

    /*
     * First part: import newly received packets.
     */
    if (netmap_no_pendintr || force_update) {
        uint16_t slot_flags = kring->nkr_slot_flags;

        nic_i = rxr->next_to_clean;
        nm_i = netmap_idx_n2k(kring, nic_i);

        for (n = 0; ; n++) {
            union e1000_adv_rx_desc *curr =

```



```

E1000_RX_DESC_ADV(*rxr, nic_i);
uint32_t staterr = le32toh(curr->wb.upper.status_error);

if ((staterr & E1000_RXD_STAT_DD) == 0)
    break;
ring->slot[nm_i].len = le16toh(curr->wb.upper.length);
ring->slot[nm_i].flags = slot_flags;
nm_i = nm_next(nm_i, lim);
nic_i = nm_next(nic_i, lim);
}
if (n) { /* update the state variables */
    rxr->next_to_clean = nic_i;
    kring->nr_hwtail = nm_i;
}
kring->nr_kflags &= ~NKR_PENDINTR;
}

/*
 * Second part: skip past packets that userspace has released.
 */
nm_i = kring->nr_hwcur;
if (nm_i != head) {
    nic_i = netmap_idx_k2n(kring, nm_i);
    for (n = 0; nm_i != head; n++) {
        struct netmap_slot *slot = &ring->slot[nm_i];
        uint64_t paddr;
        void *addr = PNMB(na, slot, &paddr);
        union e1000_adv_rx_desc *curr = E1000_RX_DESC_ADV(*rxr, nic_i);

        if (addr == NETMAP_BUF_BASE(na)) /* bad buf */
            goto ring_reset;

        if (slot->flags & NS_BUF_CHANGED) {
            // netmap_reload_map(pdev, DMA_FROM_DEVICE, old_paddr, addr);
            slot->flags &= ~NS_BUF_CHANGED;
        }
        curr->read.pkt_addr = htobe64(paddr);
        curr->read.hdr_addr = 0;
        nm_i = nm_next(nm_i, lim);
        nic_i = nm_next(nic_i, lim);
    }
    kring->nr_hwcur = head;
    wmb();
    rxr->next_to_use = nic_i; // XXX not really used
}
/*
 * IMPORTANT: we must leave one free slot in the ring,
 * so move nic_i back by one unit
 */

```

```

    nic_i = nm_prev(nic_i, lim);
    writel(nic_i, rxr->tail);
}

return 0;

ring_reset:
return netmap_ring_reinit(kring);
}

static int
igb_netmap_configure_tx_ring(struct SOFTC_T *adapter, int ring_nr)
{
    struct ifnet *ifp = adapter->netdev;
    struct netmap_adapter* na = NA(ifp);
    struct netmap_slot* slot;
    struct igb_ring *txr = adapter->tx_ring[ring_nr];
    int i, si;
    void *addr;
    uint64_t paddr;

    slot = netmap_reset(na, NR_TX, ring_nr, 0);
    if (!slot)
        return 0; // not in netmap native mode
    for (i = 0; i < na->num_tx_desc; i++) {
        union e1000_adv_tx_desc *tx_desc;
        si = netmap_idx_n2k(&na->tx_rings[ring_nr], i);
        addr = PNMB(na, slot + si, &paddr);
        tx_desc = E1000_TX_DESC_ADV(*txr, i);
        tx_desc->read.buffer_addr = htobe64(paddr);
        /* actually we don't care to init the rings here */
    }
    return 1; // success
}

static int
igb_netmap_configure_rx_ring(struct igb_ring *rxr)
{
    struct ifnet *ifp = rxr->netdev;
    struct netmap_adapter* na = NA(ifp);
    int reg_idx = rxr->reg_idx;
    struct netmap_slot* slot;
    u_int i;

    /*

```

```

* XXX watch out, the main driver must not use
* split headers. The buffer len should be written
* into wr32(E1000_SRRCTL(reg_idx), srrctl) with options
* something like
* srrctl = ALIGN(buffer_len, 1024) >>
* E1000_SRRCTL_BSIZEPKT_SHIFT;
* srrctl |= E1000_SRRCTL_DESCTYPE_ADV_ONEBUF;
* srrctl |= E1000_SRRCTL_DROP_EN;
*/
    slot = netmap_reset(na, NR_RX, reg_idx, 0);
if (!slot)
    return 0; // not in native netmap mode

for (i = 0; i < rxr->count; i++) {
    union e1000_adv_rx_desc *rx_desc;
    uint64_t paddr;
    int si = netmap_idx_n2k(&na->rx_rings[reg_idx], i);

#if 0
    // XXX the skb check can go away
    struct igb_rx_buffer *bi = &rxr->rx_buffer_info[i];
    if (bi->skb)
        D("rx buf %d was set", i);
    bi->skb = NULL; // XXX leak if set
#endif /* useless */

    PNMB(na, slot + si, &paddr);
    rx_desc = E1000_RX_DESC_ADV(*rxr, i);
    rx_desc->read.hdr_addr = 0;
    rx_desc->read.pkt_addr = htobe64(paddr);
}
rxr->next_to_use = 0;
/* preserve buffers already made available to clients */
i = rxr->count - 1 - nm_kr_rxspace(&na->rx_rings[reg_idx]);

wmb(); /* Force memory writes to complete */
ND("%s rxr%d.tail %d", na->name, reg_idx, i);
writel(i, rxr->tail);
return 1; // success
}

static void
igb_netmap_attach(struct SOFTC_T *adapter)
{
    struct netmap_adapter na;

    bzero(&na, sizeof(na));

```

```

na.ifp = adapter->netdev;
na.pdev = &adapter->pdev->dev;
na.num_tx_desc = adapter->tx_ring_count;
na.num_rx_desc = adapter->rx_ring_count;
na.nm_register = igb_netmap_reg;
na.nm_txsync = igb_netmap_txsync;
na.nm_rxsync = igb_netmap_rxsync;
na.num_tx_rings = adapter->num_tx_queues;
na.num_rx_rings = adapter->num_rx_queues;
netmap_attach(&na);
}

/* end of file */
/*
*****
* Copyright (C) 2016 Marvell International Ltd.
*****
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* under the terms of the GNU General Public License as published by the Free
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* along with this program. If not, see <http://www.gnu.org/licenses/>.
*****
*/

/* mv_pp2x_netmap.h */

#ifndef __MV_PP2X_NETMAP_H__
#define __MV_PP2X_NETMAP_H__

#include <bsd_glue.h>
#include <net/netmap.h>
#include <dev/netmap/netmap_kern.h>

#define SOFTC_T mv_pp2x_port
#define MVPP2_BM_NETMAP_PKT_SIZE 2048
#define MVPP2_NETMAP_MAX_QUEUES_NUM (MVPP2_MAX_CELLS * MVPP2_MAX_PORTS * \
    MVPP2_MAX_RXQ)

#define MVPP2_NETMAP_TXD_L3INFO_SHIFT 26
#define MVPP2_NETMAP_TXD_L4INFO_SHIFT 24

```

```

#define MVPP2_NETMAP_TXD_L3_CSUM_EN_SHIFT 14
#define MVPP2_NETMAP_TXD_L4_CSUM_EN_SHIFT 13

struct mvpp2_ntmp_buf_idx {
    int rx;
    int tx;
};

struct mvpp2_ntmp_cell_params {
    int bm_pool_num;
    int active_if;
};

struct mvpp2_ntmp_params {
    struct mvpp2_ntmp_buf_idx buf_idx[MVPP2_NETMAP_MAX_QUEUES_NUM];
    struct mvpp2_ntmp_cell_params cell_params[MVPP2_MAX_CELLS];
};

static struct mvpp2_ntmp_params *ntmp_params;

/*
 * Register/unregister
 * adapter is pointer to eth_port
 */
/*
 * Register/unregister. We are already under netmap lock.
 */
static int
mv_pp2x_netmap_reg(struct netmap_adapter *na, int onoff)
{
    struct ifnet *ifp = na->ifp;
    struct SOFTC_T *adapter = netdev_priv(ifp);
    struct mvpp2_ntmp_cell_params *cell_params;
    u_int rxq, queue, si, cell_id;

    if (!na)
        return -EINVAL;

    /* stop current interface */
    if (!netif_running(adapter->dev))
        return -EINVAL;

    mv_pp2x_stop(adapter->dev);

    pr_debug("%s: stopping interface\n", ifp->name);

    cell_id = adapter->priv->pp2_cfg.cell_index;
    cell_params = &ntmp_params->cell_params[cell_id];

```

```

/* enable or disable flags and callbacks in na and ifp */
if (onoff) {
    u_int pool;

    pr_info("Netmap started\n");

    nm_set_native_flags(na);
    adapter->flags |= MVPP2_F_IFCAP_NETMAP;
    cell_params->active_if++;
    if (cell_params->bm_pool_num == 0) {
        if (mv_pp2x_bm_pool_ext_add(ifp->dev.parent,
            adapter->priv, &pool,
            MVPP2_BM_NETMAP_PKT_SIZE) != 0) {
            pr_err("Unable to allocate a new pool\n");
            return -EINVAL;
        }
        cell_params->bm_pool_num = pool;
    }
} else {
    u_int i, idx;

    pr_info("Netmap stop\n");

    nm_clear_native_flags(na);

    idx = cell_id * MVPP2_MAX_PORTS * MVPP2_MAX_RXQ
        + adapter->id * MVPP2_MAX_RXQ;
    /* restore buf_idx to original place in ring
     * Netmap releases buffers according to buf_idx, so
     * they need to be in place.
     */
    for (queue = 0; queue < na->num_rx_rings;
        queue++) {
        struct netmap_kring *kring =
            &na->rx_rings[queue];
        struct netmap_ring *ring = kring->ring;
        struct netmap_slot *slot = &ring->slot[0];

        if (ntmp_params->buf_idx[idx + queue].rx != 0){
            for (i = 0; i < na->num_rx_desc; i++) {
                si = netmap_idx_n2k(
                    &na->rx_rings[queue], i);
                (slot + si)->buf_idx =
                    ntmp_params->buf_idx[idx + queue].rx + i;
            }
            ntmp_params->buf_idx[idx + queue].rx = 0;
        }
    }
}

```

```

}
for (queue = 0; queue < na->num_tx_rings;
    queue++) {
struct netmap_kring *kring =
    &na->tx_rings[queue];
struct netmap_ring *ring = kring->ring;
struct netmap_slot *slot = &ring->slot[0];

if (ntmp_params->buf_idx[idx + queue].tx != 0){
for (i = 0; i < na->num_tx_desc; i++) {
    si = netmap_idx_n2k(
        &na->tx_rings[queue], i);
    (slot + si)->buf_idx =
        ntmp_params->buf_idx[idx + queue].tx + i;
    }
    ntmp_params->buf_idx[idx + queue].tx = 0;
}
}

if (--cell_params->active_if < 0) {
pr_err("Error in active interfaces\n");
return -EINVAL;
}
if (cell_params->active_if == 0) {
pr_info("removig netmap BM pool %d from cell %d\n",
    cell_params->bm_pool_num, cell_id);
for (rxq = 0; rxq < na->num_rx_rings; rxq++) {
    mv_pp2x_swf_bm_pool_assign(adapter, rxq,
        adapter->pool_long->id,
        adapter->pool_short->id);
}

mv_pp2x_bm_pool_destroy(ifp->dev.parent, adapter->priv,
    &adapter->priv->bm_pools[cell_params->bm_pool_num]);
cell_params->bm_pool_num = 0;
}

adapter->flags &= ~MVPP2_F_IFCAP_NETMAP;
}

if (netif_running(adapter->dev)) {
mv_pp2x_open(adapter->dev);
pr_debug("%s: starting interface\n", ifp->name);
}
return 0;
}
}
/*

```

```

* Reconcile kernel and user view of the transmit ring.
*/
static int
mv_pp2x_netmap_txsync(struct netmap_kring *kring, int flags)
{
    struct netmap_adapter *na = kring->na;
    struct ifnet *ifp = na->ifp;
    struct netmap_ring *ring = kring->ring;
    u_int ring_nr = kring->ring_id;
    u_int nm_i; /* index into the netmap ring */
    u_int nic_i = 0; /* Number of sent packets from NIC */
    u_int n;
    u_int const lim = kring->nkr_num_slots - 1;
    u_int count = 0;
    u_int tx_count = 0, tx_bytes = 0;
    u_int const head = kring->rhead;
    struct mv_pp2x_tx_desc *tx_desc;
    struct mv_pp2x_aggr_tx_queue *aggr_txq = NULL;
    struct mv_pp2x_txq_pcpu *txq_pcpu;
    struct mv_pp2x_tx_queue *txq;
    u_int tx_sent;
    u8 first_addr_space;
    u_int num_cpus = num_active_cpus();
    u_int rsv_chunk;
    int cpu = get_cpu();

    /* generate an interrupt approximately every half ring */
    /*u_int report_frequency = kring->nkr_num_slots >> 1;*/

    /* device-specific */
    /* take a copy of ring->cur now, and never read it again */

    struct SOFTC_T *adapter = netdev_priv(ifp);

    txq = adapter->txqs[ring_nr % adapter->num_tx_queues];
    txq_pcpu = this_cpu_ptr(txq->pcpu);
    aggr_txq = &adapter->priv->aggr_txqs[cpu];
    first_addr_space = adapter->priv->pp2_cfg.first_sw_thread;

    rsv_chunk = (num_cpus > 2) ?
        (txq_pcpu->size >> 2) - 1 :
        (txq_pcpu->size >> (num_cpus >> 1)) - 1;

    /*
    * Process new packets to send. j is the current index in the
    * netmap ring, l is the corresponding index in the NIC ring.
    */

```



```

if (!netif_carrier_ok(ifp))
    goto out;

nm_i = kring->nr_hwcur;
if (nm_i != head) { /* we have new packets to send */
    for (n = 0; nm_i != head; n++) {
        /* slot is the current slot in the netmap ring */
        struct netmap_slot *slot = &ring->slot[nm_i];
        u_int len = slot->len;
        u64 paddr;
        void *addr = PNMB(na, slot, &paddr);

        /* device-specific */
        NM_CHECK_ADDR_LEN(na, addr, len);
        slot->flags &= ~NS_REPORT;

        /* check aggregated TXQ resource */
        if (unlikely((aggr_txq->count + 1) > aggr_txq->size)) {
            if (mv_pp2x_aggr_desc_num_check(adapter->priv, aggr_txq, 1, cpu))
                break;
        }

        if (unlikely(txq_pcpu->reserved_num == 0)){
            txq_pcpu->reserved_num += mv_pp2x_txq_alloc_reserved_desc(adapter->priv,
                txq, rsv_chunk, cpu);
            if (txq_pcpu->reserved_num == 0)
                break;
        }

        tx_desc = mv_pp2x_txq_next_desc_get(aggr_txq);
        tx_desc->phys_txq = txq->id; /* Destination Queue ID */
        mv_pp2x_txdesc_phys_addr_set(adapter->priv->pp2_version,
            (uint32_t)(paddr) & ~MVPP2_TX_DESC_ALIGN,
            tx_desc);
        tx_desc->data_size = len;
        tx_desc->packet_offset = slot->data_offs;

        if (slot->csum_offload.l3_offset) {
            tx_desc->command = (slot->csum_offload.l3_offset << MVPP2_TXD_L3_OFF_SHIFT) |
                (slot->csum_offload.ip_hdr_len << MVPP2_TXD_IP_HLEN_SHIFT) |
                ((slot->csum_offload.l3_type & 0x1) << MVPP2_NETMAP_TXD_L3INFO_SHIFT) |
                ((~slot->csum_offload.l3_type & 0x2) << MVPP2_NETMAP_TXD_L3_CSUM_EN_SHIFT) |
                ((slot->csum_offload.l4_type & 0x1) << MVPP2_NETMAP_TXD_L4INFO_SHIFT) |
                ((~slot->csum_offload.l4_type & 0x2) << MVPP2_NETMAP_TXD_L4_CSUM_EN_SHIFT) |
                MVPP2_TXD_F_DESC | MVPP2_TXD_L_DESC;
        } else
            tx_desc->command = MVPP2_TXD_L4_CSUM_NOT |
                MVPP2_TXD_IP_CSUM_DISABLE | MVPP2_TXD_F_DESC |

```

```

MVPP2_TXD_L_DESC;

mv_pp2x_txq_inc_put(adapter->priv->pp2_version,
    txq_pcpu, addr, tx_desc);

txq_pcpu->count += 1;
txq_pcpu->reserved_num -= 1;

if (++count >= (aggr_txq->size >> 2)) {
    wmb(); /* synchronize writes to the NIC ring */
    mv_pp2x_aggr_txq_pend_desc_add(adapter, count);
    aggr_txq->count += count;
    count = 0;
}
tx_bytes += len;
tx_count++;

if (slot->flags & NS_BUF_CHANGED)
    slot->flags &= ~NS_BUF_CHANGED;

nm_i = nm_next(nm_i, lim);
}

/* Enable transmit */
if (count > 0) {
    wmb(); /* synchronize writes to the NIC ring */
    mv_pp2x_aggr_txq_pend_desc_add(adapter, count);
    aggr_txq->count += count;
}
/* Update tx counters */
if (tx_count) {
    struct mv_pp2x_pcpu_stats *stats = this_cpu_ptr(adapter->stats);
    u64_stats_update_begin(&stats->syncp);
    stats->tx_packets += tx_count;
    stats->tx_bytes += tx_bytes;
    u64_stats_update_end(&stats->syncp);
}
kring->nr_hwcur = head; /* the saved ring->cur */
}

/*
 * Second part: reclaim buffers for completed transmissions.
 */
nic_i = netmap_idx_k2n(kring, kring->nr_hwtail);
tx_sent = mv_pp2x_txq_sent_desc_proc(adapter,
    (first_addr_space + txq_pcpu->cpu), txq->id);
txq_pcpu->count -= tx_sent;

```

```

if (tx_sent >= kring->nkr_num_slots) {
    pr_warn("tx_sent: %d, nkr_num_slots: %d\n", tx_sent,
        kring->nkr_num_slots);
    tx_sent = tx_sent % kring->nkr_num_slots;
}

nic_i = ((tx_sent + nic_i) % kring->nkr_num_slots);
kring->nr_hwtail = netmap_idx_n2k(kring, nic_i);

out:
    put_cpu();
    return 0;
}

/*
 * Reconcile kernel and user view of the receive ring.
 */
static int
mv_pp2x_netmap_rxsync(struct netmap_kring *kring, int flags)
{
    struct netmap_adapter *na = kring->na;
    struct ifnet *ifp = na->ifp;
    struct netmap_ring *ring = kring->ring;
    u_int ring_nr = kring->ring_id;
    u_int nm_i; /* index into the netmap ring */
    u_int nic_i; /* index into the NIC ring */
    u_int n = 0, m = 0;
    u_int rx_count = 0, rx_bytes = 0;
    u_int const lim = kring->nkr_num_slots - 1;
    u_int const head = kring->rhead;
    int force_update = (flags & NAF_FORCE_READ) || kring->nr_kflags &
        NKR_PENDINTR;
    u_int rx_done = 0;
    u_int cell_id, bm_pool;

    /* device-specific */
    struct SOFTC_T *adapter = netdev_priv(ifp);
    struct mv_pp2x_rx_queue *rxq;
    struct mv_pp2x_pcpu_stats *stats;
    int cpu;

    if (!netif_carrier_ok(ifp))
        return 0;

    rxq = adapter->rxqs[ring_nr];

    if (head > lim)
        return netmap_ring_reinit(kring);

```

```

cell_id = adapter->priv->pp2_cfg.cell_index;
bm_pool = ntmp_params->cell_params[cell_id].bm_pool_num;

cpu = get_cpu();
stats = this_cpu_ptr(adapter->stats);

/* hardware memory barrier that prevents any memory read access from
 * being moved and executed on the other side of the barrier rmb();
 */
rmb();

/* First part: import newly received packets into the netmap ring */
/* netmap_no_pendintr = 1, see netmap.c */
if (netmap_no_pendintr || force_update) {
    struct mv_pp2x_rx_desc *curr;
    struct netmap_slot *slot;
    /* Get number of received packets */
    u16 slot_flags = kring->nkr_slot_flags;
    /* TBD :: remove CRC or not */
    u32 strip_crc = (0) ? 4 : 0;

    rx_done = mv_pp2x_rxq_received(adapter, rxq->id);
    rx_done = (rx_done >= lim) ? lim - 1 : rx_done;
    nic_i = rxq->next_desc_to_proc;
    nm_i = kring->nr_hwtail;

    for (n = 0; n < rx_done; n++) {
        if (unlikely(nm_next(nm_i, lim) == kring->nr_hwcur)) break;
        curr = MVPP2_QUEUE_DESC_PTR(rxq, nic_i);

#ifdef __BIG_ENDIAN
        if (adapter->priv->pp2_version == PPV21)
            mv_pp21_rx_desc_swap(curr);
        else
            mv_pp22_rx_desc_swap(curr);
#endif /* __BIG_ENDIAN */

        /* TBD : check for ERRORS */
        if (unlikely(curr->status & MVPP2_RXD_ERR_SUMMARY)) {
            dma_addr_t paddr = mv_pp22_rxdesc_phys_addr_get(curr);
            mv_pp2x_bm_pool_put_virtual(&adapter->priv->hw, bm_pool, paddr,
                mv_pp22_rxdesc_cookie_get(curr), cpu);
            nic_i = nm_next(nic_i, lim);
            /* update rx error counters */
            u64_stats_update_begin(&stats->syncp);
            adapter->dev->stats.rx_errors++;
            u64_stats_update_end(&stats->syncp);

```

```

    continue;
}

slot = &ring->slot[nm_i];
slot->len = (curr->data_size) -
    strip_crc - MVPP2_MH_SIZE;
slot->data_offs = NET_SKB_PAD + MVPP2_MH_SIZE;
slot->buf_idx = (uintptr_t)
    mv_pp22_rxdesc_cookie_get(curr);
slot->flags = slot_flags;
nm_i = nm_next(nm_i, lim);
nic_i = nm_next(nic_i, lim);
rx_count++;
rx_bytes += slot->len;
}
if (n) { /* update the state variables and rx counters */

    rxq->next_desc_to_proc = nic_i;
    kring->nr_hwtail = nm_i;
    mv_pp2x_rxq_status_update(adapter, rxq->id, n, n);

    u64_stats_update_begin(&stats->syncp);
    stats->rx_packets += rx_count;
    stats->rx_bytes += rx_bytes;
    u64_stats_update_end(&stats->syncp);
}
kring->nr_kflags &= ~NKR_PENDINTR;
}

/*
 * Second part: skip past packets that userspace has released.
 */
nm_i = kring->nr_hwcur; /* netmap ring index */

if (nm_i != head) { /* userspace has released some packets. */
    nic_i = netmap_idx_k2n(kring, nm_i); /* NIC ring index */
    for (m = 0; nm_i != head; m++) {
        struct netmap_slot *slot = &ring->slot[nm_i];
        dma_addr_t paddr;

        void *addr = PNMB(na, slot, &paddr);

        if (addr == NETMAP_BUF_BASE(na)) { /* bad buf */
            goto ring_reset;
        }

        /* In big endian mode: no need to swap descriptor here,
         * already swapped before

```

```

*/
mv_pp2x_bm_pool_put_virtual(&adapter->priv->hw, bm_pool, paddr,
    (u8 *) (uintptr_t) slot->buf_idx, cpu);
/* mark this slot as invalid */
slot->buf_idx = 0;

if (slot->flags & NS_BUF_CHANGED)
    slot->flags &= ~NS_BUF_CHANGED;

nm_i = nm_next(nm_i, lim);
nic_i = nm_next(nic_i, lim);
}
kring->nr_hwcur = head;
/*mv_pp2x_rxq_status_update(adapter, rxq->id, 0, m)*/;
}
put_cpu();
return 0;

ring_reset:
return netmap_ring_reinit(kring);
}

/*
* Make the rx ring point to the netmap buffers.
*/
static int mv_pp2x_netmap_rxq_init_buffers(struct SOFTC_T *adapter)
{
    struct ifnet *ifp = adapter->dev; /* struct net_devive */
    struct netmap_adapter *na = NA(ifp);
    struct netmap_slot *slot;
    dma_addr_t paddr;
    u32 *addr;
    struct mv_pp2x_rx_queue *rxq;
    u_int queue, idx, cell_id, bm_pool;
    u_int i = 0, si;
    struct mv_pp2x_bm_pool *bm_pool_netmap;
    struct netmap_kring *kring;
    int cpu;

    cell_id = adapter->priv->pp2_cfg.cell_index;
    idx = cell_id * MVPP2_MAX_PORTS * MVPP2_MAX_RXQ
        + adapter->id * MVPP2_MAX_RXQ;
    bm_pool = ntmp_params->cell_params[cell_id].bm_pool_num;
    bm_pool_netmap = &adapter->priv->bm_pools[bm_pool];

    pr_debug("Cell ID: %d, Port %d\n", cell_id, adapter->id);
    pr_debug("-----\n");

```

```

for_each_online_cpu(cpu) {
    /* Reset the BM virtual and physical address high register
    (not in use in netmap) */
    mv_pp2x_relaxed_write(&adapter->priv->hw, MVPP22_BM_PHY_VIRT_HIGH_RLS_REG,
        0, cpu);
}

for (queue = 0; queue < na->num_rx_rings; queue++) {
    rxq = adapter->rxqs[queue];

    kring = na->rx_rings + queue;
    if (kring->nr_mode == NKR_NETMAP_ON){
        pr_debug("rx queue %d, ring already initialized %p\n",
            queue, (void *)kring);
        continue;
    }

    /* initialize the rx ring */
    slot = netmap_reset(na, NR_RX, queue, 0);
    if (!slot){
        pr_debug("rx queue %d, ring is still null\n", queue);
        continue;
    }

    ntmp_params->buf_idx[idx + queue].rx = slot->buf_idx;
    mv_pp2x_swf_bm_pool_assign(adapter, queue, bm_pool, bm_pool);
    cpu = get_cpu();
    for (i = 0; i < na->num_rx_desc; i++) {
        si = netmap_idx_n2k(&na->rx_rings[queue], i);
        addr = PNMB(na, slot + si, &paddr);
        mv_pp2x_bm_pool_put_virtual(&adapter->priv->hw, bm_pool, paddr,
            (u8 *) (uint64_t)(slot + si)->buf_idx, cpu);
        bm_pool_netmap->buf_num++;
        if (bm_pool_netmap->buf_num >= MVPP22_BM_POOL_SIZE_MAX){
            pr_info("Max size of BM pool reached %d\n",
                bm_pool_netmap->buf_num);
            break;
        }
    }
    put_cpu();
    pr_debug("rx queue %d, buf_idx[%d].rx %d, new ring %p, BM pool buffers %d\n",
        queue, idx + queue,
        ntmp_params->buf_idx[idx + queue].rx, (void *)kring,
        bm_pool_netmap->buf_num);
    rxq->next_desc_to_proc = 0;
}
return 1;
}

```

```

/*
 * Make the tx ring point to the netmap buffers.
 */
static int mv_pp2x_netmap_txq_init_buffers(struct SOFTC_T *adapter)
{
    struct ifnet *ifp = adapter->dev;
    struct netmap_adapter *na = NA(ifp);
    struct netmap_slot *slot;
    struct mv_pp2x_tx_queue *txq;
    u_int queue, idx;
    struct netmap_kring *kring;

    idx = adapter->priv->pp2_cfg.cell_index *
        MVPP2_MAX_PORTS * MVPP2_MAX_RXQ + adapter->id * MVPP2_MAX_RXQ;

    /* initialize the tx ring */
    for (queue = 0; queue < na->num_tx_rings; queue++) {
        txq = adapter->txqs[queue];

        kring = na->tx_rings + queue;
        if (kring->nr_mode == NKR_NETMAP_ON){
            pr_debug("tx queue %d, ring already initialized %p\n",
                queue, (void *)kring);
            continue;
        }

        /* initialize the rx ring */
        slot = netmap_reset(na, NR_TX, queue, 0);
        if (!slot){
            pr_debug("tx queue %d, ring is still null\n", queue);
            continue;
        }

        ntmp_params->buf_idx[idx + queue].tx = slot->buf_idx;
        pr_debug("tx queue %d, buf_idx[%d].tx %d, new ring %p\n",
            queue, idx + queue,
            ntmp_params->buf_idx[idx + queue].tx, (void *)kring);
    }
    return 1;
}

/* Update the mvpp2x-net device configurations. Number of queues can
 * change dynamically
 */

static int
mv_pp2x_netmap_config(struct netmap_adapter *na, u_int *txr, u_int *txd,

```



```

    u_int *rxr, u_int *rxd)
{
    struct ifnet *ifp = na->ifp;
    struct SOFTC_T *adapter = netdev_priv(ifp);

    *txr = adapter->num_tx_queues * num_active_cpus();
    *rxr = adapter->num_rx_queues;
    *rxd = adapter->rx_ring_size;
    *txd = adapter->tx_ring_size;

    return 0;
}

static void
mv_pp2x_netmap_attach(struct SOFTC_T *adapter)
{
    struct netmap_adapter na;

    bzero(&na, sizeof(na));

    if (!ntmp_params)
        ntmp_params = kmalloc(sizeof(*ntmp_params), GFP_KERNEL);

    na.ifp = adapter->dev; /* struct net_device */
    na.num_tx_desc = adapter->tx_ring_size;
    na.num_rx_desc = adapter->rx_ring_size;
    na.nm_register = mv_pp2x_netmap_reg;
    na.nm_config = mv_pp2x_netmap_config;
    na.nm_txsync = mv_pp2x_netmap_txsync;
    na.nm_rxsync = mv_pp2x_netmap_rxsync;
    na.num_tx_rings = adapter->num_tx_queues * num_active_cpus();
    na.num_rx_rings = adapter->num_rx_queues;
    netmap_attach(&na);
}
#endif /* __MV_PP2X_NETMAP_H__ */

```

## 1.104 nspr 4.13.1 :1.0.e17\_3

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

```
/* 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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```
#ifndef __LICENSE_H
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}
```

```
#endif
```

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(in case you are wondering where CyberLogin is, EON changed its login



procedure and CyberLogin is no longer used.)

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for the nxt2002 frontend driver

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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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Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
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## 1.113 openssl 1.0.2k :8.e17

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## 1.114 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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 * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
 * size keys (Implemented RFC5649)
 */
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## 1.117 paramiko 2.1.1

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## 1.119 pcre 8.32 :14.el7

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Written by: Philip Hazel

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```

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@group
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interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.
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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end group
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## 1.122 polycoreutils 2.2.5 :15.e17

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```
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```
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## 1.125 procps-ng 3.3.10 :3.el7

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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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## 1.126 pth 2.0.7

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```
-----  
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| | )|_|' \   How do I know? Well, James Bond  
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```

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## 1.127 pyasn1 0.2.2

## 1.128 pygpgme 0.3 :9.el7

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From RPM File Metadata: LGPLv2+

## 1.129 pyliblzma 0.5.3 :11.el7

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Version 3, 29 June 2007

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# 1.130 python 2.7.5 :16.e17

## 1.130.1 Available under license :

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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
2.7	2.6	2010	PSF	yes

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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## 1.131 python-iniparse 0.4 :9.e17

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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.

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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
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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
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- 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,

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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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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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# 1.134 python\_GPLv3 2.7.5 :16.e17

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Version 3, 29 June 2007

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## 1.135 pyxattr 0.5.1 :5.e17

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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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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

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library `Frob' (a library for tweaking knobs) written by James  
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<signature of Ty Coon>, 1 April 1990
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Ty Coon, President of Vice

That's all there is to it!

# 1.136 qrencode 3.4.1 :3.e17

## 1.136.1 Available under license :

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Version 2.1, February 1999

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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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@c ispell-local-pdict: "ispell-dict"

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Version 3, 29 June 2007

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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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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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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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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.>

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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!

# 1.141 rsyslog 7.4.7 :7.e17\_0

## 1.141.1 Available under license :

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Version 3, 29 June 2007

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### Preamble

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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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Developers that use the GNU GPL protect your rights with two steps:

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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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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:

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- 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).

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```
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```

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```
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under certain conditions; type `show c' for details.
```

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## 1.142 sed 4.2.2 :5.e17

### 1.142.1 Available under license :

```
=====
```

```
Test 1.1:101
```

```
=====
```

```
Testing argument parsing
```

```
First type
```

```
e1_11_1
```

```
e1_11_1
```

```
e1_11_2
```

```
e1_11_2
```

```
e1_11_3
```

```
e1_11_3
```

```
e1_11_4
```

```
e1_11_4
```

```
e1_11_5
```

```
e1_11_5
```

```
e1_11_6
```

```
e1_11_6
```

```
e1_11_7
```

```
e1_11_7
```

```
e1_11_8
```

```
e1_11_8
```

```
e1_11_9
```

```
e1_11_9
```

```
e1_11_10
```

```
e1_11_10
```

```
e1_11_11
```

```
e1_11_11
```

```
e1_11_12
```

```
e1_11_12
```

```
e1_11_13
```

```
e1_11_13
```

```
e1_11_14
```

```
e1_11_14
```

```
=====
```

```
Test 1.2:102
```

```
=====
```

```
e1_11_1
```

```
e1_11_2
```

e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====

Test 1.3:103

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.4:104

=====



e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14  
Second type

=====

Test 1.4.1:105

=====

l1\_1  
l1\_2  
l1\_3  
l1\_4  
l1\_5  
l1\_6  
l1\_7  
l1\_8  
l1\_9  
l1\_10  
l1\_11  
l1\_12  
l1\_13  
l1\_14

=====

Test 1.5:106

=====

s1\_11\_1  
s1\_11\_1  
s1\_11\_2  
s1\_11\_2  
s1\_11\_3  
s1\_11\_3  
s1\_11\_4  
s1\_11\_4  
s1\_11\_5  
s1\_11\_5  
s1\_11\_6

s1\_11\_6  
s1\_11\_7  
s1\_11\_7  
s1\_11\_8  
s1\_11\_8  
s1\_11\_9  
s1\_11\_9  
s1\_11\_10  
s1\_11\_10  
s1\_11\_11  
s1\_11\_11  
s1\_11\_12  
s1\_11\_12  
s1\_11\_13  
s1\_11\_13  
s1\_11\_14  
s1\_11\_14

=====  
Test 1.6:107

=====  
s1\_11\_1  
s1\_11\_1  
s1\_11\_2  
s1\_11\_2  
s1\_11\_3  
s1\_11\_3  
s1\_11\_4  
s1\_11\_4  
s1\_11\_5  
s1\_11\_5  
s1\_11\_6  
s1\_11\_6  
s1\_11\_7  
s1\_11\_7  
s1\_11\_8  
s1\_11\_8  
s1\_11\_9  
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s1\_11\_11  
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s1\_11\_12  
s1\_11\_12  
s1\_11\_13  
s1\_11\_13  
s1\_11\_14

s1\_11\_14

=====  
Test 1.7:108

=====  
e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
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e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====  
Test 1.8:109

=====  
e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6

e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====  
Test 1.9:110

=====  
s1\_11\_1  
s1\_11\_2  
s1\_11\_3  
s1\_11\_4  
s1\_11\_5  
s1\_11\_6  
s1\_11\_7  
s1\_11\_8  
s1\_11\_9  
s1\_11\_10  
s1\_11\_11  
s1\_11\_12  
s1\_11\_13  
s1\_11\_14

=====  
Test 1.10:111

=====  
s1\_11\_1  
s1\_11\_2  
s1\_11\_3  
s1\_11\_4  
s1\_11\_5  
s1\_11\_6  
s1\_11\_7  
s1\_11\_8  
s1\_11\_9

s1\_11\_10  
s1\_11\_11  
s1\_11\_12  
s1\_11\_13  
s1\_11\_14

=====  
Test 1.11:112

=====  
e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====  
Test 1.12:113

=====  
e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====  
Test 1.13:114

=====  
e1\_11\_1  
e2\_e1\_11\_1  
e2\_e1\_11\_1

e1\_11\_2  
e2\_e1\_11\_2  
e2\_e1\_11\_2  
e1\_11\_3  
e2\_e1\_11\_3  
e2\_e1\_11\_3  
e1\_11\_4  
e2\_e1\_11\_4  
e2\_e1\_11\_4  
e1\_11\_5  
e2\_e1\_11\_5  
e2\_e1\_11\_5  
e1\_11\_6  
e2\_e1\_11\_6  
e2\_e1\_11\_6  
e1\_11\_7  
e2\_e1\_11\_7  
e2\_e1\_11\_7  
e1\_11\_8  
e2\_e1\_11\_8  
e2\_e1\_11\_8  
e1\_11\_9  
e2\_e1\_11\_9  
e2\_e1\_11\_9  
e1\_11\_10  
e2\_e1\_11\_10  
e2\_e1\_11\_10  
e1\_11\_11  
e2\_e1\_11\_11  
e2\_e1\_11\_11  
e1\_11\_12  
e2\_e1\_11\_12  
e2\_e1\_11\_12  
e1\_11\_13  
e2\_e1\_11\_13  
e2\_e1\_11\_13  
e1\_11\_14  
e2\_e1\_11\_14  
e2\_e1\_11\_14

=====

Test 1.14:115

=====

s1\_11\_1  
s2\_s1\_11\_1  
s2\_s1\_11\_1  
s1\_11\_2  
s2\_s1\_11\_2

s2\_s1\_11\_2  
s1\_11\_3  
s2\_s1\_11\_3  
s2\_s1\_11\_3  
s1\_11\_4  
s2\_s1\_11\_4  
s2\_s1\_11\_4  
s1\_11\_5  
s2\_s1\_11\_5  
s2\_s1\_11\_5  
s1\_11\_6  
s2\_s1\_11\_6  
s2\_s1\_11\_6  
s1\_11\_7  
s2\_s1\_11\_7  
s2\_s1\_11\_7  
s1\_11\_8  
s2\_s1\_11\_8  
s2\_s1\_11\_8  
s1\_11\_9  
s2\_s1\_11\_9  
s2\_s1\_11\_9  
s1\_11\_10  
s2\_s1\_11\_10  
s2\_s1\_11\_10  
s1\_11\_11  
s2\_s1\_11\_11  
s2\_s1\_11\_11  
s1\_11\_12  
s2\_s1\_11\_12  
s2\_s1\_11\_12  
s1\_11\_13  
s2\_s1\_11\_13  
s2\_s1\_11\_13  
s1\_11\_14  
s2\_s1\_11\_14  
s2\_s1\_11\_14

=====

Test 1.15:116

=====

e1\_11\_1  
s1\_e1\_11\_1  
s1\_e1\_11\_1  
e1\_11\_2  
s1\_e1\_11\_2  
s1\_e1\_11\_2  
e1\_11\_3

s1\_e1\_11\_3  
s1\_e1\_11\_3  
e1\_11\_4  
s1\_e1\_11\_4  
s1\_e1\_11\_4  
e1\_11\_5  
s1\_e1\_11\_5  
s1\_e1\_11\_5  
e1\_11\_6  
s1\_e1\_11\_6  
s1\_e1\_11\_6  
e1\_11\_7  
s1\_e1\_11\_7  
s1\_e1\_11\_7  
e1\_11\_8  
s1\_e1\_11\_8  
s1\_e1\_11\_8  
e1\_11\_9  
s1\_e1\_11\_9  
s1\_e1\_11\_9  
e1\_11\_10  
s1\_e1\_11\_10  
s1\_e1\_11\_10  
e1\_11\_11  
s1\_e1\_11\_11  
s1\_e1\_11\_11  
e1\_11\_12  
s1\_e1\_11\_12  
s1\_e1\_11\_12  
e1\_11\_13  
s1\_e1\_11\_13  
s1\_e1\_11\_13  
e1\_11\_14  
s1\_e1\_11\_14  
s1\_e1\_11\_14

=====

Test 1.16:117

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5



e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14  
e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====  
Test 1.17:118

=====

- 11\_1
- 11\_1
- 11\_2
- 11\_2
- 11\_3
- 11\_3
- 11\_4
- 11\_4
- 11\_5
- 11\_5
- 11\_6
- 11\_6
- 11\_7
- 11\_7
- 11\_8
- 11\_8
- 11\_9
- 11\_9
- 11\_10
- 11\_10
- 11\_11
- 11\_11
- 11\_12
- 11\_12
- 11\_13
- 11\_13
- 11\_14
- 11\_14

=====  
Test 1.18:119

=====

- 11\_1
- 11\_2
- 11\_3
- 11\_4
- 11\_5
- 11\_6
- 11\_7
- 11\_8
- 11\_9
- 11\_10
- 11\_11
- 11\_12
- 11\_13

11\_14

Testing address ranges

=====

Test 2.1:120

=====

11\_4

=====

Test 2.2:121

=====

12\_6

=====

Test 2.3:122

=====

11\_14

=====

Test 2.4:123

=====

12\_9

=====

Test 2.5:124

=====

=====

Test 2.6:125

=====

12\_9

=====

Test 2.7:126

=====

=====

Test 2.9:127

=====

11\_7

=====

Test 2.10:128

=====

11\_7

=====

Test 2.11:129

=====  
11\_7

=====  
Test 2.12:130

=====  
11\_1  
11\_2  
11\_3  
11\_4

=====  
Test 2.13:131

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====  
Test 2.14:132

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7

11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.15:133

=====

11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.16:134

=====

11\_4  
11\_5  
11\_6  
11\_7

11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6

=====  
Test 2.17:135

=====  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====  
Test 2.18:136

=====  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====  
Test 2.19:137

=====  
11\_12

=====  
Test 2.20:138

=====  
11\_7  
Brace and other grouping

=====  
Test 3.1:139

=====  
11\_1  
11\_2  
11\_3  
^11T4\$  
^11T5\$  
^11T6\$  
^11T7\$  
^11T8\$  
^11T9\$  
^11T10\$  
^11T11\$  
^11T12\$  
11\_13  
11\_14

=====  
Test 3.2:140

=====  
11\_1  
11\_2  
11\_3  
^11\_4  
^11\_5  
^11\_6\$  
^11\_7\$  
^11T8\$  
^11\_9\$  
^11\_10\$  
^11\_11  
^11\_12  
11\_13  
11\_14

=====  
Test 3.3:141

=====

^11T1\$  
^11T2\$  
^11T3\$  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
^11T13\$  
^11T14\$

=====  
Test 3.4:142  
=====

^11\_1  
^11\_2  
^11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
^11\_13  
^11\_14

Testing a c d and i commands

=====  
Test 4.1:143  
=====

before\_il1\_1  
after\_ibefore\_il1\_1  
before\_il1\_2  
after\_ibefore\_il1\_2  
before\_il1\_3  
after\_ibefore\_il1\_3  
before\_il1\_4  
after\_ibefore\_il1\_4  
before\_il1\_5  
after\_ibefore\_il1\_5  
before\_il1\_6



after\_ibefore\_il1\_6  
before\_il1\_7  
after\_ibefore\_il1\_7  
before\_il1\_8  
after\_ibefore\_il1\_8  
before\_il1\_9  
after\_ibefore\_il1\_9  
before\_il1\_10  
after\_ibefore\_il1\_10  
before\_il1\_11  
after\_ibefore\_il1\_11  
before\_il1\_12  
after\_ibefore\_il1\_12  
before\_il1\_13  
after\_ibefore\_il1\_13  
before\_il1\_14  
after\_ibefore\_il1\_14  
before\_il2\_1  
after\_ibefore\_il2\_1  
before\_il2\_2  
after\_ibefore\_il2\_2  
before\_il2\_3  
after\_ibefore\_il2\_3  
before\_il2\_4  
after\_ibefore\_il2\_4  
before\_il2\_5  
after\_ibefore\_il2\_5  
before\_il2\_6  
inserted  
after\_ibefore\_il2\_6  
before\_il2\_7  
after\_ibefore\_il2\_7  
before\_il2\_8  
after\_ibefore\_il2\_8  
before\_il2\_9  
after\_ibefore\_il2\_9

=====

Test 4.2:144

=====

before\_al1\_1  
after\_abefore\_al1\_1  
before\_al1\_2  
after\_abefore\_al1\_2  
before\_al1\_3  
after\_abefore\_al1\_3  
before\_al1\_4  
after\_abefore\_al1\_4

before\_a5-1211\_5  
after\_abefore\_a5-1211\_5  
appended  
before\_a5-1211\_6  
after\_abefore\_a5-1211\_6  
appended  
before\_a5-1211\_7  
after\_abefore\_a5-1211\_7  
appended  
before\_a5-1211\_8  
after\_abefore\_a5-1211\_8  
appended  
before\_a5-1211\_9  
after\_abefore\_a5-1211\_9  
appended  
before\_a5-1211\_10  
after\_abefore\_a5-1211\_10  
appended  
before\_a5-1211\_11  
after\_abefore\_a5-1211\_11  
appended  
before\_a5-1211\_12  
after\_abefore\_a5-1211\_12  
appended  
before\_al1\_13  
after\_abefore\_al1\_13  
before\_al1\_14  
after\_abefore\_al1\_14  
before\_al2\_1  
after\_abefore\_al2\_1  
before\_al2\_2  
after\_abefore\_al2\_2  
before\_al2\_3  
after\_abefore\_al2\_3  
before\_al2\_4  
after\_abefore\_al2\_4  
before\_al2\_5  
after\_abefore\_al2\_5  
before\_al2\_6  
after\_abefore\_al2\_6  
before\_al2\_7  
after\_abefore\_al2\_7  
before\_al2\_8  
after\_abefore\_al2\_8  
before\_al2\_9  
after\_abefore\_al2\_9

=====

Test 4.3:145

=====

^11\_1  
^11\_1\$  
appended  
^11\_2  
^11\_2\$  
appended  
^11\_3  
^11\_3\$  
appended  
^11\_4  
^11\_4\$  
appended  
^11\_5  
^11\_5\$  
appended  
^11\_6  
^11\_6\$  
appended  
^11\_7  
^11\_7\$  
appended  
^11\_8  
appended  
^11\_8  
11\_9\$  
^11\_10  
appended  
^11\_10  
11\_11\$  
^11\_12  
^11\_12\$  
appended  
^11\_13  
^11\_13\$  
appended  
^11\_14  
^11\_14\$  
appended  
^12\_1  
^12\_1\$  
^12\_2  
^12\_2\$  
^12\_3  
^12\_3\$  
^12\_4  
^12\_4\$

^12\_5  
^12\_5\$  
^12\_6  
^12\_6\$  
^12\_7  
^12\_7\$  
^12\_8  
^12\_8\$  
^12\_9  
^12\_9\$

=====  
Test 4.4:146

=====  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello

=====  
Test 4.5:147

=====  
hello

=====  
Test 4.6:148

=====  
hello

=====  
Test 4.7:149

=====  
hello

=====  
Test 4.8:150

=====  
Testing labels and branching

=====

Test 5.1:151

=====

label2\_11\_1

label3\_label2\_11\_1

label1\_11\_2

label1\_11\_3

label1\_11\_4

label1\_11\_5

label1\_11\_6

label1\_11\_7

label1\_11\_8

label1\_11\_9

label1\_11\_10

label1\_11\_11

label1\_11\_12

label2\_11\_13

label3\_label2\_11\_13

label2\_11\_14

label3\_label2\_11\_14

=====

Test 5.2:152

=====

tested l2\_1

tested l2\_2

tested l2\_3

tested l2\_4

tested l2\_5

tested l2\_6

tested l2\_7

tested l2\_8

tested l2\_9

tested l2\_10

tested l2\_11

tested l2\_12

tested l2\_13

tested l2\_14

=====

Test 5.3:153

=====

^11\_1

^11\_1\$

^11\_2

^11\_2\$

^11\_3

^11\_3\$  
^11\_4  
^11\_4\$  
11\_5\$  
11\_6\$  
11\_7\$  
11\_8\$

=====  
Test 5.4:154

=====  
^11\_1\$  
^11\_2\$  
^11\_3\$  
^11\_4\$  
^11\_5\$  
^11\_6\$  
^11\_7\$  
^11\_8\$  
11\_9\$  
11\_10\$  
11\_11\$  
11\_12\$  
11\_13\$  
11\_14\$

=====  
Test 5.5:155

=====  
^11\_1  
^11\_2  
^11\_4  
^11\_6  
^11\_8

=====  
Test 5.6:156

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5

=====  
Test 5.7:157

=====  
11\_1

l1\_2  
l1\_3  
l1\_4  
hello  
l1\_5

=====  
Test 5.8:158  
=====

m1\_1  
m1\_2  
m1\_3  
m1\_4  
m1\_5  
m1\_6  
m1\_7  
m1\_8  
m1\_9  
m1\_10  
m1\_11  
m1\_12  
m1\_13  
m1\_14  
Pattern space commands

=====  
Test 6.1:159  
=====

changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed

=====  
Test 6.2:160  
=====

l1\_1  
l1\_2

11\_3  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 6.3:161

=====  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 6.4:162

=====  
11\_1  
11\_2  
11\_3  
11\_2  
11\_3  
11\_5  
11\_2  
11\_3  
11\_2  
11\_3  
11\_6  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13



11\_14

=====  
Test 6.5:163

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 6.6:164

=====  
Testing print and file routines

=====  
Test 7.1:165

=====  
\001\002\003\004\005\006\a\b\t\$  
\v\fr\016\017\020\021\022\023\024\025\026\027\030\031\032\033\034\  
\035\036\037 !"#%&'()\*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNPOQRSTUVWXYZ\  
YZ[\]^\_`abcdefghijklmnopqrstuvwxy{|}~\177\200\201\202\203\204\205\  
\206\207\210\211\212\213\214\215\216\217\220\221\222\223\224\225\226\  
\227\230\231\232\233\234\235\236\237\240\241\242\243\244\245\246\247\  
\250\251\252\253\254\255\256\257\260\261\262\263\264\265\266\267\270\  
\271\272\273\274\275\276\277\300\301\302\303\304\305\306\307\310\311\  
\312\313\314\315\316\317\320\321\322\323\324\325\326\327\330\331\332\  
\333\334\335\336\337\340\341\342\343\344\345\346\347\350\351\352\353\  
\354\355\356\357\360\361\362\363\364\365\366\367\370\371\372\373\374\  
\375\376\377\$  
\$

=====  
Test 7.2:166

=====  
11\_1  
11\_2  
11\_3

11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
15  
12\_1  
16  
12\_2  
17  
12\_3  
18  
12\_4  
19  
12\_5  
20  
12\_6  
21  
12\_7  
22  
12\_8  
23  
12\_9

=====  
Test 7.3:167  
=====

11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

w results

11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12

=====

Test 7.4:168

=====

11\_1  
11\_2  
11\_3  
11\_4  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 7.5:169

=====

11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7

11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 7.6:170

=====

11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 7.8:171

=====

Testing substitution commands

=====

Test 8.1:172

=====

XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX

XXXXXX

=====

Test 8.2:173

=====

XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX

=====

Test 8.3:174

=====

XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX

=====

Test 8.4:175

=====

11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7

11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 8.5:176

=====

11X1  
11X2  
11X3  
11X4  
11X5  
11X6  
11X7  
11X8  
11X9  
11X10  
11X11  
11X12  
11X13  
11X14

=====  
Test 8.6:177

=====

(1)(1)(1)(1)  
(1)(1)(1)(2)  
(1)(1)(1)(3)  
(1)(1)(1)(4)  
(1)(1)(1)(5)  
(1)(1)(1)(6)  
(1)(1)(1)(7)  
(1)(1)(1)(8)  
(1)(1)(1)(9)  
(1)(1)(1)(1)(0)  
(1)(1)(1)(1)(1)  
(1)(1)(1)(1)(2)  
(1)(1)(1)(1)(3)  
(1)(1)(1)(1)(4)

=====  
Test 8.7:178

=====

(&)(&)(&)(&)

(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)

=====  
Test 8.8:179

=====  
x\_x1x11  
x\_x1x12  
x\_x1x13  
x\_x1x14  
x\_x1x15  
x\_x1x16  
x\_x1x17  
x\_x1x18  
x\_x1x19  
x\_x1x110  
x\_x1x111  
x\_x1x112  
x\_x1x113  
x\_x1x114

=====  
Test 8.9:180

=====  
11u0  
u1  
u21  
11u0  
u1  
u22  
11u0  
u1  
u23  
11u0  
u1  
u24  
11u0

u1  
u25  
l1u0  
u1  
u26  
l1u0  
u1  
u27  
l1u0  
u1  
u28  
l1u0  
u1  
u29  
l1u0  
u1  
u210  
l1u0  
u1  
u211  
l1u0  
u1  
u212  
l1u0  
u1  
u213  
l1u0  
u1  
u214

=====

Test 8.10:181

=====

l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X0  
l1\_X1  
l1\_X2  
l1\_X3  
l1\_X4



=====  
Test 8.11:182  
=====

IX\_1

IX\_2

IX\_3

IX\_4

IX\_5

IX\_6

IX\_7

IX\_8

IX\_9

IX\_10

IX\_11

IX\_12

IX\_13

IX\_14

s wfile results

IX\_1

IX\_2

IX\_3

IX\_4

IX\_5

IX\_6

IX\_7

IX\_8

IX\_9

IX\_10

IX\_11

IX\_12

IX\_13

IX\_14

=====  
Test 8.12:183  
=====

IX\_X

IX\_X

IX\_X

IX\_4

IX\_5

IX\_6

IX\_7

IX\_8

IX\_9

IX\_X0

IX\_XX

IX\_XX

IX\_XX

IX\_X4

=====

Test 8.13:184

=====

18\_8

18\_7

18\_6

18\_5

18\_4

18\_3

18\_2

18\_1

18\_0

18\_89

18\_88

18\_87

18\_86

18\_85

=====

Test 8.14:185

=====

18\_8

18\_7

18\_6

18\_5

18\_4

18\_3

18\_2

18\_1

18\_0

18\_89

18\_88

18\_87

18\_86

18\_85

=====

Test 8.15:186

=====

11\_1X11\_2

11\_3

11\_4

11\_5

11\_6

11\_7

11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 8.16:187

=====

eeefff  
Xeefff  
XYefff  
XYeYff  
XYeYYf  
XYeYYY  
XYeYYY

=====

Test 8.17:188

=====

&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&&  
&&&&&  
&&&&&  
&&&&&  
&&&&&

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## **1.145 shared-mime-info 1.1 :7.el7**

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## 1.155 telnet 0.17 :59.el7

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# 1.156 texinfo 5.1-4

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The initial work to provide the UEFI implementation of Lua was done at Emulex Corporation.

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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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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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
2.7	2.6	2010	PSF	yes

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From b0c3ba9ae15b9739856e17e59df90e532424e961 Mon Sep 17 00:00:00 2001

From: Marcin Wojtas <mw@semihalf.com>

Date: Wed, 30 Nov 2016 16:00:05 +0100

Subject: [PATCH 183/199] ExtPkg: Update ext driver

+/\*\*

+ \* \file fsw\_efi\_edk2\_base.h

+ \* Base definitions for the EDK EFI Toolkit environment.

+ \*/

+/\*\*

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```

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+ * \file fsw_lib.c
+ * Core file system wrapper library functions.
+ */

/*-
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@@ -96,34 +82,6 @@ int fsw_strlen(struct fsw_string *s)
    return s->len;
}

-static const fsw_u16 fsw_latin_case_fold[] =
-{
- /* 0 */ 0xFFFF, 0x0001, 0x0002, 0x0003, 0x0004, 0x0005, 0x0006, 0x0007, 0x0008, 0x0009, 0x000A, 0x000B,
0x000C, 0x000D, 0x000E, 0x000F,
- /* 1 */ 0x0010, 0x0011, 0x0012, 0x0013, 0x0014, 0x0015, 0x0016, 0x0017, 0x0018, 0x0019, 0x001A, 0x001B,
0x001C, 0x001D, 0x001E, 0x001F,
- /* 2 */ 0x0020, 0x0021, 0x0022, 0x0023, 0x0024, 0x0025, 0x0026, 0x0027, 0x0028, 0x0029, 0x002A, 0x002B,
0x002C, 0x002D, 0x002E, 0x002F,
- /* 3 */ 0x0030, 0x0031, 0x0032, 0x0033, 0x0034, 0x0035, 0x0036, 0x0037, 0x0038, 0x0039, 0x003A, 0x003B,
0x003C, 0x003D, 0x003E, 0x003F,
- /* 4 */ 0x0040, 0x0061, 0x0062, 0x0063, 0x0064, 0x0065, 0x0066, 0x0067, 0x0068, 0x0069, 0x006A, 0x006B,
0x006C, 0x006D, 0x006E, 0x006F,
- /* 5 */ 0x0070, 0x0071, 0x0072, 0x0073, 0x0074, 0x0075, 0x0076, 0x0077, 0x0078, 0x0079, 0x007A, 0x005B,
0x005C, 0x005D, 0x005E, 0x005F,
- /* 6 */ 0x0060, 0x0061, 0x0062, 0x0063, 0x0064, 0x0065, 0x0066, 0x0067, 0x0068, 0x0069, 0x006A, 0x006B,
0x006C, 0x006D, 0x006E, 0x006F,
- /* 7 */ 0x0070, 0x0071, 0x0072, 0x0073, 0x0074, 0x0075, 0x0076, 0x0077, 0x0078, 0x0079, 0x007A, 0x007B,
0x007C, 0x007D, 0x007E, 0x007F,

```

```

- /* 8 */ 0x0080, 0x0081, 0x0082, 0x0083, 0x0084, 0x0085, 0x0086, 0x0087, 0x0088, 0x0089, 0x008A, 0x008B,
0x008C, 0x008D, 0x008E, 0x008F,
- /* 9 */ 0x0090, 0x0091, 0x0092, 0x0093, 0x0094, 0x0095, 0x0096, 0x0097, 0x0098, 0x0099, 0x009A, 0x009B,
0x009C, 0x009D, 0x009E, 0x009F,
- /* A */ 0x00A0, 0x00A1, 0x00A2, 0x00A3, 0x00A4, 0x00A5, 0x00A6, 0x00A7, 0x00A8, 0x00A9, 0x00AA,
0x00AB, 0x00AC, 0x00AD, 0x00AE, 0x00AF,
- /* B */ 0x00B0, 0x00B1, 0x00B2, 0x00B3, 0x00B4, 0x00B5, 0x00B6, 0x00B7, 0x00B8, 0x00B9, 0x00BA,
0x00BB, 0x00BC, 0x00BD, 0x00BE, 0x00BF,
- /* C */ 0x00C0, 0x00C1, 0x00C2, 0x00C3, 0x00C4, 0x00C5, 0x00E6, 0x00C7, 0x00C8, 0x00C9, 0x00CA,
0x00CB, 0x00CC, 0x00CD, 0x00CE, 0x00CF,
- /* D */ 0x00D0, 0x00D1, 0x00D2, 0x00D3, 0x00D4, 0x00D5, 0x00D6, 0x00D7, 0x00D8, 0x00D9, 0x00DA,
0x00DB, 0x00DC, 0x00DD, 0x00FE, 0x00DF,
- /* E */ 0x00E0, 0x00E1, 0x00E2, 0x00E3, 0x00E4, 0x00E5, 0x00E6, 0x00E7, 0x00E8, 0x00E9, 0x00EA,
0x00EB, 0x00EC, 0x00ED, 0x00EE, 0x00EF,
- /* F */ 0x00F0, 0x00F1, 0x00F2, 0x00F3, 0x00F4, 0x00F5, 0x00F6, 0x00F7, 0x00F8, 0x00F9, 0x00FA,
0x00FB, 0x00FC, 0x00FD, 0x00FE, 0x00FF,
-};
-
-
-fsw_u16 fsw_to_lower(fsw_u16 ch)
-{
- if (ch < 0x0100)
- return fsw_latin_case_fold[ch];
- return ch;
-}
-
/**
 * Compare two strings for equality. The two strings are compared, taking their
 * encoding into account. If they are considered equal, boolean true is returned.
@@ -247,7 +205,7 @@ fsw_status_t fsw_strdup_coerce(struct fsw_string *dest, int type, struct fsw_str
}

/**
- * Splits a string at the first occurrence of the separator character.
+ * Splits a string at the first occurrence of the separator character.
 * The buffer string is searched for the separator character. If it is found, the
 * element string descriptor is filled to point at the part of the buffer string
 * before the separator. The buffer string itself is adjusted to point at the
diff --git a/ExtPkg/ExtPkgDxe/fsw_strfunc.h b/ExtPkg/ExtPkgDxe/fsw_strfunc.h
index 61cf25d..26408b0 100644
--- a/ExtPkg/ExtPkgDxe/fsw_strfunc.h
+++ b/ExtPkg/ExtPkgDxe/fsw_strfunc.h
@@ -1,22 +1,37 @@
-/* $Id: fsw_strfunc.h 29125 2010-05-06 09:43:05Z vboxsync $ */
-/** @file
- * fsw_strfunc.h
- */
+/* fsw_strfunc.h generated by mk_fsw_strfunc.py */

```

```

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*/

-/* fsw_strfunc.h generated by mk_fsw_strfunc.py */
-
static int fsw_streq_ISO88591_UTF8(void *s1data, void *s2data, int len)
{
    int i;
@@ -43,7 +58,6 @@ static int fsw_streq_ISO88591_UTF8(void *s1data, void *s2data, int len)

```

```

    return 1;
}

#ifndef HOST_EFI
static int fsw_streq_ISO88591_UTF16(void *s1data, void *s2data, int len)
{
    int i;
@@ -59,7 +73,6 @@ static int fsw_streq_ISO88591_UTF16(void *s1data, void *s2data, int len)
    }
    return 1;
}
#endif

```

```

static int fsw_streq_ISO88591_UTF16_SWAPPED(void *s1data, void *s2data, int len)
{
--
2.7.4

```

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## 1.165 util-linux 2.23.2 :21.e17

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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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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) year 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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```
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```

```
*/
```

```
#!/bin/bash
```

```
#
```

```
# This file is part of util-linux.
```

```
#
```

```
# Copyright (C) 2013 Karel Zak <kzak@redhat.com>
```

```
#
```

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```

```
#
```

```
#
```

```
TS_TOPDIR="$(dirname $0)/../.."
```

```
TS_DESC="nested BSD"
```

```
. $TS_TOPDIR/functions.sh
```

```
ts_init "$@"
```

```
FDISK_CMD_CREATE_DOSLABEL="o\n" # create dos label
```

```
FDISK_CMD_SETID="x\ni\n0x1\nr\n" # set non-random ID
```

```
FDISK_CMD_WRITE_CLOSE="w\nq\n" # write to image
```

```
FDISK_CMD_CREATE_PRIMARY1="n\np\n1\n\n+1M\n" # 1st primary partition of size 1MiB
```

```
FDISK_CMD_CREATE_PRIMARY2="n\np\n2\n\n\n" # 2nd primary partition for whole of the disk
```

```
FDISK_CMD_CHANGE_PART2TYPE="t\n2\na5\n" # change partition type FreeBSD
```

```
FDISK_CMD_BSD_CREATE="b\ny\n" # create nested BSD PT
```

```
FDISK_CMD_BSD_LIST="b\np\nr\nq\n" # list nested BSD PT and quit
```

```
FDISK_CMD_BSD_CREATE_PART="b\nn\na\n\n+1M\n" # add BSD partition 'a', size 1MiB
```

```
FDISK_CMD_BSD_PARTTYPE="b\nt\na\n7\n" # set partition 'a' to type 4.2BSD
```

```
FDISK_CMD_BSD_LIST_TYPES="b\nl\nq\n" # list supported PT types and quit
```

```
#set -x
```

```
function print_layout {
```

```
echo -ne "\n---layout-----" >> $TS_OUTPUT
```

```
$TS_CMD_FDISK -l ${TEST_IMAGE_NAME} | \
```

```
sed 's/^\.*\.img/___ts_dev___/g;
```

```
s/^[[:blank:]]*Device Boot/ Device Boot/g' >> $TS_OUTPUT 2>&1
```

```

echo -ne "-----\n\n" >> $TS_OUTPUT
}

function print_bsd_layout {
echo -ne "\n---layout-----" >> $TS_OUTPUT
echo -e "${FDISK_CMD_BSD_LIST}" | $TS_CMD_FDISK ${TEST_IMAGE_NAME} |\
sed 's/Reading .*/g;
      s/Welcome to fdisk .*/' >> $TS_OUTPUT 2>&1
echo -ne "-----\n\n" >> $TS_OUTPUT
}

ts_log "Initialize empty image"
TEST_IMAGE_NAME=$(ts_image_init 10)
ts_image_md5sum >> $TS_OUTPUT 2>&1

ts_log "Create new DOS partition table"
echo -e "${FDISK_CMD_CREATE_DOSLABEL}${FDISK_CMD_SETID}${FDISK_CMD_WRITE_CLOSE}" |\
| $TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create 1st primary partition"
echo -e "${FDISK_CMD_CREATE_PRIMARY1}${FDISK_CMD_WRITE_CLOSE}" |\
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create 2st primary partition"
echo -e "${FDISK_CMD_CREATE_PRIMARY2}${FDISK_CMD_WRITE_CLOSE}" |\
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

ts_log "Set 2nd partition type"
echo -e "${FDISK_CMD_CHANGE_PART2TYPE}${FDISK_CMD_WRITE_CLOSE}" |\
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create default BSD"
echo -e "${FDISK_CMD_BSD_CREATE}${FDISK_CMD_WRITE_CLOSE}" |\
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_bsd_layout

```

```
echo -e "${FDISK_CMD_BSD_CREATE_PART}${FDISK_CMD_WRITE_CLOSE}" |\
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
```

```
echo -e "${FDISK_CMD_BSD_PARTTYPE}${FDISK_CMD_WRITE_CLOSE}" |\
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1
```

print\_bsd\_layout

```
echo -e "${FDISK_CMD_BSD_LIST_TYPES}" |\
$TS_CMD_FDISK ${TEST_IMAGE_NAME} |\
sed 's/Reading .*/g; s/Welcome to fdisk .*/' >> $TS_OUTPUT 2>&1
```

ts\_finalize

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## 1.166 vim 7.4.160 :1.e17

### 1.166.1 Available under license :

\*uganda.txt\* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

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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 ===

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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.

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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:

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  - 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.
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- 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.

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<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 has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. 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 Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

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](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: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

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:

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:

/\*

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Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

# 1.167 wget 1.14 :15.el7\_4.1.1

## 1.167.1 Available under license :

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Version 3, 29 June 2007

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## 1.170 xz 5.1.2 :9alpha.el7

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```

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## 1.174 zlib 1.2.7 :13.e17

### 1.174.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.7, May 2nd, 2012
```

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```

```

-----
/*
* match.S -- optimized version of longest_match()
* based on the similar work by Gilles Vollant, and Brian Raiter, written 1998
*
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*/
*/

```

# 1.175 zlib/contrib-ada 1.2.7 :13.el7

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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 * ioLib/ioLib.s, openbios_walnut, walnut_bios 6/17/99 12:54:45
 *-----+
 *
```



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*-----
*
* File Name: ioLib.s
*
* Function: C-callable assembler functions for I/O.
*
* Author: Bill DeStein.
*
* Change Activity-
*
* Date Description of Change BY
* -----
* 13-Aug-92 Created WCD
* 27-May-94 Port to Oak MPT
* 24-Apr-95 Port to Metaware JWB
* 26-Apr-99 Port to Walnut (added in and out byte reversed routines) JWB
*-----

```

## 2.5 Catalyst 4K SrcGalaxyMathH 1

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### v2.4.1

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* Tim Martin
* Rob Earhart
* Rob Siemborski
```

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\* Tim Martin

\* Rob Earhart

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 *
 *   @(#)ttychars.h 8.2 (Berkeley) 1/4/94
 * $FreeBSD: src/sys/sys/ttychars.h,v 1.7 1999/08/28 00:52:06 peter Exp $
 */
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\*  
 \* @(#)ttycom.h 8.1 (Berkeley) 3/28/94  
 \* \$FreeBSD: src/sys/sys/ttycom.h,v 1.16 2000/01/29 16:47:35 peter Exp \$  
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*
*   @(#)ttydefaults.h      8.4 (Berkeley) 1/21/94
* $FreeBSD: src/sys/sys/ttydefaults.h,v 1.13.2.1 2001/03/06 03:37:08 jkh Exp $
*/

```

## 2.12 ftp.h 4.4BSD?

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* @(#)ftp.h 8.1 (Berkeley) 6/2/93
*/

```

## 2.13 inflate.c c10p1

### 2.13.1 Available under license :

```

/* inflate.c -- Not copyrighted 1992 by Mark Adler
   version c10p1, 10 January 1993 */

/* You can do whatever you like with this source file, though I would
   prefer that if you modify it and redistribute it that you include
   comments to that effect with your name and the date. Thank you.
   [The history has been moved to the file ChangeLog.]
*/

/* $Id: inflate.c,v 3.2.60.1 1996/03/18 19:11:09 gstovall Exp $
   $Source: /release/111/cvs/Xsys/czip/inflate.c,v $
   -----
   * inflate.c - unzip inflate
   *
   * December 1994, Michael Beesley
   *
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   *
   * -----
   * $Log: inflate.c,v $
   * Revision 3.2.60.1 1996/03/18 19:11:09 gstovall
   * Branch: California_branch
   * Elvis has left the building. He headed out to California, and took the
   * port ready changes with him.
   *
   * Revision 3.2.26.2 1996/03/07 08:42:15 mdb
   * Branch: DeadKingOnAThrone_branch
   * cisco and ANSI/POSIX libraries.
   *

```

```

* Revision 3.2.26.1 1996/02/20 13:44:31 dstine
* Branch: DeadKingOnAThrone_branch
*   Sync from DeadKingOnAThrone_baseline_960122 to
*   DeadKingOnAThrone_baseline_960213
*
* Revision 3.2 1995/11/17 08:58:13 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 11:15:19 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/06/23 22:23:30 mbeesley
* CSCdi36360: 95q1 compiler fails to build czip_elf
* Work-around the compiler bug by declaring variables static.
* This allows zipped images for c4500, rsp to ship in 11.0.
*
* Revision 2.1 1995/06/07 20:22:19 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

## 2.14 iniparser 2.8

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## 2.18 libgcc and libstdc++ (gcc) 4.2.1

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```
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```

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/\* \$NetBSD: scanf.c,v 1.12 2003/08/07 16:43:31 agc Exp \$ \*/

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/\* \$NetBSD: statvfs.h,v 1.17 2011/11/18 21:17:45 christos Exp \$ \*/

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1. [1]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller



2. [2]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
4. [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes
5. [6]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca>IPv6 support
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
11. [12]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
12. [13]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
13. [14]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
14. [15]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
15. [16]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
16. [17]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
17. [18]John Hay <jhay@icomtek.csiro.co.za> IPv6 support and testing
18. [19]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
19. [20]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
20. [21]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
21. [22]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
22. [23]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [24]<H.Lambermont@chello.nl> ntpsweep
23. [25]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
24. [26]Frank Kardel [27]<Frank.Kardel@informatik.uni-erlangen.de> PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup
25. [28]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
26. [29]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
27. [30]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
28. [31]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
29. [32]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
30. [33]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
31. [34]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance

32. [35]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
  33. [36]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
  34. [37]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
  35. [38]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
  36. [39]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
  37. [40]Derek Mulcahy <derek@toybox.demon.co.uk> and [41]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
  38. [42]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
  39. [43]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
  40. [44]Wilfredo S?nchez <wsanchez@apple.com> added support for NetInfo
  41. [45]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
  42. [46]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
  43. [47]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  44. [48]Michael Shields <shields@tembel.org> USNO clock driver
  45. [49]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
  46. [50]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
  47. [51]Kenneth Stone <ken@sdd.hp.com> HP-UX port
  48. [52]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
  49. [53]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
  50. [54]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
- 

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*
*   @(#)bpf.h    7.1 (Berkeley) 5/7/91
*
* @(#) $Header: /tcpdump/master/libpcap/pcap-bpf.h,v 1.34 2005/02/08 20:03:15 guy Exp $ (LBL)
*/

```

## 2.27 Poul-Henning Kamp Inflate and MD5 1

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```

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*
* @(#)radix.c 8.4 (Berkeley) 11/2/94
* $FreeBSD: src/sys/net/radix.c,v 1.20.2.3 2002/04/28 05:40:25 suz Exp $
*/

```

## 2.30 regex 3.8a

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## 2.32 sem.h 4.4BSD? via NetBSD

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*
*   from: @(#)sem.h 8.1 (Berkeley) 6/6/93
*/

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```
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```

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Written by John R. Hauser. This work was made possible in part by the

International Computer Science Institute, located at Suite 600, 1947 Center

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rstat\_proc.c

(2) krb5

authunix\_prot.c

bindresvport.c

clnt\_generic.c

clnt\_perror.c

clnt\_simple.c

get\_myaddress.c

getrpcent.c

pmap\_getmaps.c

pmap\_getport.c

rpc\_callmsg.c

rpc\_commondata.c

rpc\_dtablesize.c

svc\_auth\_unix.c

types.hin

xdr\_alloc.c

xdr\_reference.c

possibly also the following :

include/gssrpc/auth.h

include/gssrpc/auth\_unix.h

include/gssrpc/clnt.h  
include/gssrpc/netdb.h

include/gssrpc/pmap\_clnt.h  
include/gssrpc/pmap\_prot.h

include/gssrpc/pmap\_rmt.h  
include/gssrpc/rpc.h

include/gssrpc/rpc\_msg.h  
include/gssrpc/svc\_auth.h

include/gssrpc/svc.h  
include/gssrpc/types.hin

include/gssrpc/xdr.h  
kadmin/server/ovsec\_kadmd.c

lib/rpc/auth\_none.c  
lib/rpc/auth\_unix.c

lib/rpc/authunix\_prot.c  
lib/rpc/bindresvport.c

lib/rpc/clnt\_generic.c  
lib/rpc/clnt\_perror.c

lib/rpc/clnt\_raw.c  
lib/rpc/clnt\_simple.c  
lib/rpc/clnt\_tcp.c

lib/rpc/clnt\_udp.c  
lib/rpc/get\_myaddress.c

lib/rpc/getrpcent.c  
lib/rpc/getrpcport.c  
lib/rpc/pmap\_clnt.c

lib/rpc/pmap\_getmaps.c  
lib/rpc/pmap\_getport.c

lib/rpc/pmap\_prot2.c  
lib/rpc/pmap\_prot.c  
lib/rpc/pmap\_rmt.c

lib/rpc/rpc\_callmsg.c  
lib/rpc/rpc\_commdata.c

lib/rpc/rpc\_dtablesize.c  
lib/rpc/rpc\_prot.c

lib/rpc/svc\_auth.c  
lib/rpc/svc\_auth\_unix.c  
lib/rpc/svc.c

lib/rpc/svc\_raw.c  
lib/rpc/svc\_run.c  
lib/rpc/svc\_simple.c

lib/rpc/svc\_tcp.c  
lib/rpc/svc\_udp.c

lib/rpc/unit-test/server.c  
lib/rpc/xdr\_alloc.c

lib/rpc/xdr\_array.c  
lib/rpc/xdr.c  
lib/rpc/xdr\_float.c

lib/rpc/xdr\_mem.c  
lib/rpc/xdr\_rec.c  
lib/rpc/xdr\_reference.c

lib/rpc/xdr\_sizeof.c  
lib/rpc/xdr\_stdio.c

### (3) glibc

auth\_des.c  
authdes\_prot.c  
auth.h  
auth\_none.c  
auth\_unix.c  
auth\_unix.h  
authuxprot.c  
bindsvprt.c  
bootparam\_prot.x  
clnt\_gen.c  
clnt.h  
clnt\_perr.c

clnt\_raw.c  
clnt\_simp.c  
clnt\_tcp.c  
clnt\_udp.c  
clnt\_unix.c  
des\_crypt.c  
des\_crypt.h  
des\_soft.c  
get\_myaddr.c  
getrpcport.c  
key\_call.c  
key\_prot.c  
key\_prot.h  
key\_prot.x  
klm\_prot.x  
mount.x  
netdb.h  
nfs\_prot.x  
nlm\_prot.x  
openchild.c  
pmap\_clnt.c  
pmap\_clnt.h  
pmap\_prot2.c  
pmap\_prot.c  
pmap\_prot.h  
pmap\_rmt.c  
pmap\_rmt.h  
pm\_getmaps.c  
pm\_getport.c  
rex.x  
rpc\_clntout.c  
rpc\_cmsg.c  
rpc\_common.c  
rpc\_cout.c  
rpc\_des.h  
rpc\_dtable.c  
rpc.h  
rpc\_hout.c  
rpcinfo.c  
rpc\_main.c  
rpc\_msg.h  
rpc\_parse.c  
rpc\_parse.h  
rpc\_prot.c  
rpc\_sample.c  
rpc\_scan.c  
rpc\_scan.h  
rpc\_svcout.c

rpc\_tblout.c  
rpc\_util.c  
rpc\_util.h  
rstat.x  
rtime.c  
rusers.x  
sm\_inter.x  
spray.x  
svc\_auth.c  
svcauth\_des.c  
svc\_auth.h  
svc\_authux.c  
svc.c  
svc.h  
svc\_raw.c  
svc\_run.c  
svc\_simple.c  
svc\_tcp.c  
svc\_udp.c  
svc\_unix.c  
types.h  
xcrypt.c  
xdr\_array.c  
xdr.c  
xdr\_float.c  
xdr.h  
xdr\_mem.c  
xdr\_rec.c  
xdr\_ref.c  
xdr\_sizeof.c  
xdr\_stdio.c  
yppasswd.x

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Linux and Virtualization Engineering  
Oracle Corporation

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## 2.37 termcap 4.4BSD? via OpenBSD

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```
/* $OpenBSD: termcap.c,v 1.7 2009/10/27 23:59:46 deraadt Exp $ */
/* $NetBSD: termcap.c,v 1.7 1995/06/05 19:45:52 pk Exp $ */
```

```
/*
```

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```

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```

```
*
```

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*/

```

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*
* @(#)tftp.h 8.1 (Berkeley) 6/2/93
* $FreeBSD: /repoman/r/ncvs/src/include/arpa/tftp.h,v 1.3.6.1 2002/08/14 21:59:26 peter Exp $
*/
```

## 2.39 tgoto.c 4.4BSD?

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```

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# * Mountain View, California 94043
# */
```

Date: Wed, 18 Aug 2010 11:25:39 -0700

From: Wim Coekaerts <wim.coekaerts@oracle.com>

To: Peter Brown <peterb@fsf.org>, drepper@redhat.com, tcallawa@redhat.com

CC: Elena Zannoni <elena.zannoni@oracle.com>

Subject: sun rpc license

Hi -

I was thinking of doing patches for this but it's probably easier to just provide you with an email with permission to relicense then it can catch the files and projects. Please let me know if any files are missing I will be happy to review that as well. just send me a note with files and which project

On behalf of Oracle America, I authorize the following list of files to be re-licensed under the license below, (3-clause BSD) and changing the old Sun Microsystems license to the one attached. :

(1) rusers (netkit)

rstat\_proc.c

(2) krb5

authunix\_prot.c

bindresvport.c

clnt\_generic.c

clnt\_perror.c

clnt\_simple.c

get\_myaddress.c

getrpcent.c

pmap\_getmaps.c

pmap\_getport.c

rpc\_callmsg.c

rpc\_commdata.c

rpc\_dtablesize.c

svc\_auth\_unix.c

types.hin

xdr\_alloc.c

xdr\_reference.c

possibly also the following :

include/gssrpc/auth.h

include/gssrpc/auth\_unix.h

include/gssrpc/clnt.h

include/gssrpc/netdb.h

include/gssrpc/pmap\_clnt.h

include/gssrpc/pmap\_prot.h

include/gssrpc/pmap\_rmt.h

include/gssrpc/rpc.h

include/gssrpc/rpc\_msg.h

include/gssrpc/svc\_auth.h

include/gssrpc/svc.h

include/gssrpc/types.hin

include/gssrpc/xdr.h

kadmin/server/ovsec\_kadmd.c

lib/rpc/auth\_none.c

lib/rpc/auth\_unix.c

lib/rpc/authunix\_prot.c

lib/rpc/bindresvport.c

lib/rpc/clnt\_generic.c

lib/rpc/clnt\_perror.c

lib/rpc/clnt\_raw.c

lib/rpc/clnt\_simple.c

lib/rpc/clnt\_tcp.c

lib/rpc/clnt\_udp.c

lib/rpc/get\_myaddress.c

lib/rpc/getrpcent.c

lib/rpc/getrpcport.c

lib/rpc/pmap\_clnt.c

lib/rpc/pmap\_getmaps.c

lib/rpc/pmap\_getport.c

lib/rpc/pmap\_prot2.c

lib/rpc/pmap\_prot.c

lib/rpc/pmap\_rmt.c

lib/rpc/rpc\_callmsg.c

lib/rpc/rpc\_commondata.c

lib/rpc/rpc\_dtablesize.c

lib/rpc/rpc\_prot.c

lib/rpc/svc\_auth.c

lib/rpc/svc\_auth\_unix.c

lib/rpc/svc.c

lib/rpc/svc\_raw.c

lib/rpc/svc\_run.c

lib/rpc/svc\_simple.c

lib/rpc/svc\_tcp.c

lib/rpc/svc\_udp.c

lib/rpc/unit-test/server.c

lib/rpc/xdr\_alloc.c

lib/rpc/xdr\_array.c

lib/rpc/xdr.c

lib/rpc/xdr\_float.c

lib/rpc/xdr\_mem.c  
lib/rpc/xdr\_rec.c  
lib/rpc/xdr\_reference.c

lib/rpc/xdr\_sizeof.c  
lib/rpc/xdr\_stdio.c

(3) glibc

auth\_des.c  
authdes\_prot.c  
auth.h  
auth\_none.c  
auth\_unix.c  
auth\_unix.h  
authuxprot.c  
bindrsvprt.c  
bootparam\_prot.x  
clnt\_gen.c  
clnt.h  
clnt\_perr.c  
clnt\_raw.c  
clnt\_simp.c  
clnt\_tcp.c  
clnt\_udp.c  
clnt\_unix.c  
des\_crypt.c  
des\_crypt.h  
des\_soft.c  
get\_myaddr.c  
getrpcport.c  
key\_call.c  
key\_prot.c  
key\_prot.h  
key\_prot.x  
klm\_prot.x  
mount.x  
netdb.h  
nfs\_prot.x  
nlm\_prot.x  
openchild.c  
pmap\_clnt.c  
pmap\_clnt.h  
pmap\_prot2.c  
pmap\_prot.c



pmap\_prot.h  
pmap\_rmt.c  
pmap\_rmt.h  
pm\_getmaps.c  
pm\_getport.c  
rex.x  
rpc\_clntout.c  
rpc\_cmsg.c  
rpc\_common.c  
rpc\_cout.c  
rpc\_des.h  
rpc\_dtable.c  
rpc.h  
rpc\_hout.c  
rpcinfo.c  
rpc\_main.c  
rpc\_msg.h  
rpc\_parse.c  
rpc\_parse.h  
rpc\_prot.c  
rpc\_sample.c  
rpc\_scan.c  
rpc\_scan.h  
rpc\_svcout.c  
rpc\_tblout.c  
rpc\_util.c  
rpc\_util.h  
rstat.x  
rtime.c  
rusers.x  
sm\_inter.x  
spray.x  
svc\_auth.c  
svcauth\_des.c  
svc\_auth.h  
svc\_authux.c  
svc.c  
svc.h  
svc\_raw.c  
svc\_run.c  
svc\_simple.c  
svc\_tcp.c  
svc\_udp.c  
svc\_unix.c  
types.h  
xcrypt.c  
xdr\_array.c  
xdr.c

xdr\_float.c  
xdr.h  
xdr\_mem.c  
xdr\_rec.c  
xdr\_ref.c  
xdr\_sizeof.c  
xdr\_stdio.c  
yppasswd.x

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Wim Coekaerts  
Senior Vice President  
Linux and Virtualization Engineering  
Oracle Corporation

## 2.41 tputs.c 4.4BSD? via NetBSD

### 2.41.1 Available under license :

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```

```
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```

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/*
```

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```

```
*/
```

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# *
# * searchpref.h: display template library defines
# * 16 May 1994 by Gordon Good
# */
```

## 2.43 Zlib 1.1.2

### 2.43.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.3, July 9th, 1998
```

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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](ftp://ds.internic.net/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](ftp://ds.internic.net/rfc/rfc1952.txt) (gzip format).

\*/

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```
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```

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```
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```

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This package was debianized by Nathan Scott [nathans@debian.org](mailto:nathans@debian.org) on Tue, 26 Feb 2002 13:25:26 +1100

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## 3.2 acpid 2.0.26 :r0

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```

```
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# 3.6 augeas 1.4.0 :r0

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## 3.8 base-files 3.0.14 :r89

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## 3.9 base-passwd 3.5.29 :r0

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The file ifs-posix.tests is Copyright (C) 2005 Glen Fowler.  
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@deepthought.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
```

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).

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From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

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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>)

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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. :-)

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## 3.12 bc 1.06 :r3

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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.

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\* `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

## 3.14 binutils 2.26 :r0

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```
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@item

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@item

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@end enumerate

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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:

@enumerate a

@item

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.

@item

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.

@item

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.

@item

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.

@item

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.

@end enumerate

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.

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The requirement to provide Installation Information does not include a

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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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@end smallexample

Also add information on how to contact you by electronic and paper mail.

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```
@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{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, your program's commands might be different; for a GUI interface, you would use an ```about box"`.

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`@c man end`

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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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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.

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This option is useful when you wish to copy part of the code of



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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

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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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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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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@cindex LGPL, Lesser General Public License

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as the successor of the GNU Library Public License, version 2, hence the  
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@appendixsubsec Preamble

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This license, the Lesser General Public License, applies to some  
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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 other code 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.

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 Public License permits more lax criteria for linking other code with the library.

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.

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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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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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.

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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.

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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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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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.)

@end enumerate

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.

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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.

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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.

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.

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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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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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@page

@appendixsubsec 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.

@smallexample  
@var{one line to give the library's name and an 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.

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:

@smallexample  
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

## Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, 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 and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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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

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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 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.

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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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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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- b) 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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(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.

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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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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.

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```
<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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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!  
(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 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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## 3.15 bison 3.0.4 :r0

### 3.15.1 Available under license :

```
#!/usr/bin/perl -0777 -pi
```

```
# Update b4_copyright invocations or b4_copyright_years definitions to  
# include the current year.
```

```
# Copyright (C) 2009-2015 Free Software Foundation, Inc.
```

```
# This program is free software; you can redistribute it and/or modify  
# it under the terms of the GNU General Public License as published by  
# the Free Software Foundation; either version 3, or (at your option)  
# any later version.
```

```
#
```

```
# This program is distributed in the hope that it will be useful,
```



```

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# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program. If not, see <http://www.gnu.org/licenses/>.

```

```

use strict;
use warnings;

```

```

my $margin = 72;

```

```

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}
my $old_re = <<'EOF'
(
    (?^\n)
    #BEFORE
    (?
        b4_copyright(\[[^\]]*\]
        | m4_(?:push|pop)def(\[b4_copyright_years]
    )
    #AFTER
)
    ,\s*
    (
        \[s* (?:\d{4}(?:,\s*|-))* (\d{4}) \s*]
    )
)?
\
EOF
;

```

```

while (/( $old_re)/gx)
{
    my $start = pos() - length ($1);
    my $b4_copyright_line = $2;
    my $year_lines = $3;
    my $final_year = $4;
    $year_lines .= ');

```

```

# If there was a second argument, it contains years, so update them.
if ($final_year)

```

```

{
$b4_copyright_line .= ',';
if ($final_year != $this_year)
{
# Update the year.
$year_lines =~ s/$final_year/$final_year, $this_year/;
}

# Normalize all whitespace.
$year_lines =~ s/\s+/ /g;

# Put spaces after commas.
$year_lines =~ s/, ?, /g;

# Compress to intervals.
$year_lines =~
s/
(\d{4})
(?:
(, \ | -)
((?){
if ($2 eq '-') { '\d{4}'; }
elsif (!$3) { '$1 + 1; }
else { '$3 + 1; }
}))
)+
/$1-$3/gx;

# Format within margin.
my $year_lines_new;
my $indent = index ($b4_copyright_line, '[');
--$indent if ($b4_copyright_line =~ m/^\n/);
while (length $year_lines)
{
my $text_margin = $margin - $indent;
if (($year_lines =~ s/^(.{1,$text_margin})(?: |$)//)
|| ($year_lines =~ s/^(([\S]+)(?: |$)//))
{
my $line = "\n" . ('x'$indent) . $1;
++$indent if (!$year_lines_new);
$year_lines_new .= $line;
}
else
{
# Should be unreachable, but we don't want an infinite
# loop if it can be reached.
die;
}
}

```

```

    }

    # Replace the old invocation. Should never die.
    die if (!s/$old_re/G/$b4_copyright_line$year_lines_new/x);

    # Prepare for the next search.
    pos () = $start + length ("b4_copyright_line$year_lines_new");
  }
}

while (/(\bb4_copyright\()/g)
{
  my $start = pos () - length ($1);
  my $end = pos ();
  my $re = $old_re;
  pos () = $start;
  $re =~ s/\#BEFORE\G/;
  if (!$re/x)
  {
    my $line = (substr ($_, 0, $start) =~ s/\n/g) + 1;
    print STDERR
      "$ARGV:$line: warning: failed to update a b4_copyright\n";
  }
  pos () = $end;
}

while (/([\b4_copyright_years])/g)
{
  my $start = pos () - length ($1);
  my $end = pos ();
  my $re = $old_re;
  $re =~ s/\#AFTER\G/;
  if (!$re/x)
  {
    # The substr operation blows away pos (), so restoring pos ()
    # at the end is necessary.
    my $line = (substr ($_, 0, $start) =~ s/\n/g) + 1;
    print STDERR
      "$ARGV:$line: warning: failed to update a"
      . " b4_copyright_years\n";
  }
  pos () = $end;
}

```

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## 3.16 bluez5 5.37 :r0

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```
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```
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## 3.17 boost 1.61.0 :r0

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
```



```
<title>Copyright Test</title>
<articleinfo>
  <copyright>
    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
  </copyright>
  <copyright>
    <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
  <copyright>
    <year>1977</year> <year>1985</year> <holder>Someone else</holder>
  </copyright>
</articleinfo>
</article>
```

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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.)

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
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Version 3, 29 June 2007

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## 3.26 cJSON 1.3.2 :r0

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### 3.8.0+gitAUTOINC+31769223eb :r0

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=====
compiler_rt License
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## 3.28 coreutils 8.25 :r0

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## 3.29 cpio 2.12 :r0

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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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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  
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, your program's commands might be different; for a GUI interface, you would use an "about box".

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## 3.30 cracklib 2.9.5 :r0

### 3.30.1 Available under license :

-----  
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  
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> 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-56FBFEBE6E9F@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

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Version 2.1, February 1999

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^L

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^L

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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

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## 3.31 cryptsetup 1.7.0 :r0

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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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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.

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## 3.32 curl 7.57.0 :r0

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## 3.33 daslr 1.0 :r0

## 3.34 db 5.3.28 :r0

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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.

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\* `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.

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\* `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.

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```

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```
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## 3.39 dmidecode 3.0 :r0

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```

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## 3.40 dnsmasq 2.75 :r0

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## 3.41 dosfstools 3.0.28 :r0

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```

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## 3.42 dtc 1.4.1+gitAUTOINC+302fca9f4c :r0

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Licensing and contribution policy of dtc and libfdt

=====

This dtc package contains two pieces of software: dtc itself, and libfdt which comprises the files in the libfdt/ subdirectory. These two pieces of software, although closely related, are quite distinct. dtc does not incorporate or rely on libfdt for its operation, nor vice versa. It is important that these two pieces of software have different license conditions.

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I made the decision to license libfdt in this way because I want to encourage widespread and correct usage of flattened device trees, including by proprietary or otherwise GPL-incompatible firmware or tools. Allowing libfdt to be used under the terms of the BSD license makes that it easier for vendors or authors of such software to do so.

This does mean that libfdt code could be "stolen" - say, included in a proprietary firmware and extended without contributing those extensions back to the libfdt mainline. While I hope that doesn't happen, I believe the goal of allowing libfdt to be widely used is more important than avoiding that. libfdt is quite small, and hardly



rocket science; so the incentive for such impolite behaviour is small, and the inconvenience caused thereby is not dire.

Licenses such as the LGPL which would allow code to be used in non-GPL software, but also require contributions to be returned were considered. However, libfdt is designed to be used in firmwares and other environments with unusual technical constraints. It's difficult to anticipate all possible changes which might be needed to meld libfdt into such environments and so difficult to suitably word a license that puts the boundary between what is and isn't permitted in the intended place. Again, I judged encouraging widespread use of libfdt by keeping the license terms simple and familiar to be the more important goal.

**\*\*IMPORTANT\*\*** It's intended that all of libfdt as released remain permissively licensed this way. Therefore only contributions which are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>  
(principal original author of dtc and libfdt)  
2 November 2007

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## 3.43 e2fsprogs

1.42.99+1.43+gitAUTOINC+0f26747167 :r0

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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
-
- Copyright (C) Andrew Tridgell      2005
+ Copyright (C) Andrew Tridgell      1999-2005
+ Copyright (C) Jeremy Allison      2000-2006
+ Copyright (C) Paul `Rusty' Russell  2000

** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released
#
# 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): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
```

```
$(MV) pic/$(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)
```

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Gadi Oxman, August 1995

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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This package was added to the e2fsprogs debian source package by  
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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Theodore Ts'o  
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## 3.44 ebttables 2.0.10-4 :r3

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```

```
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Ty Coon, President of Vice
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## 3.45 elfutils 0.170 :r0

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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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```

```
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Ty Coon, President of Vice
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#
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# the file name (including the path relative to the current directory,
# always starting with `./').
#
# Don't put empty lines into this file!
#
.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/ftandom/ftandom.c
#
# EOF
```

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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.

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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```
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```
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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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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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(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

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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

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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.

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.

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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.

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## 3.56 gconf 3.2.6 :r0

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
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```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007
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@c This file is intended to be included within another document,
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@end smallexample
```

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```
@c man end
```

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Version 2, June 1991

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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

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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.

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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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```
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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 under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse

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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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#### 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.>  
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., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, 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!  
@node Library Copying  
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License  
@center Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]  
@end display

@appendixsubsec 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 Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, 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 and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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.

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.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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 Public License permits more lax criteria for linking other code with the library.

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.

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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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

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@item

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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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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.

@item

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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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.

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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.)

@end enumerate

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.

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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.

@item

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.

#### @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.

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.

#### @item

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.

@item

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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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.

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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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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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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and ``any later version'', you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

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@center END OF TERMS AND CONDITIONS

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@appendixsubsec 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.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

@end smallexample

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:

```
@smallexample
```

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
```

```
Ty Coon, President of Vice
```

```
@end smallexample
```

That's all there is to it!

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Version 2.1, February 1999

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## 3.58 gdbm 1.11 :r0

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## 3.59 gettext 0.19.6 :r0

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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.

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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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(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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## 3.61 glibc 2.23 :r0

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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.

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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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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
<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  
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, your program's commands might be different; for a GUI interface, you would use an "about box".

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## 3.63 gnome-desktop-testing 2014.1 :r1

### 3.63.1 Available under license :

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 3.64 gnulib git :r0

### 3.64.1 Available under license :

Files:

tests/test-update-copyright.sh

Depends-on:

configure.ac:

```
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
```

```
AC_SUBST([abs_aux_dir])
```

Makefile.am:

```
TESTS += test-update-copyright.sh
```

TESTS\_ENVIRONMENT += abs\_aux\_dir='\${abs\_aux\_dir}'

Description:

Provide the GNU Free Documentation License in Texinfo format.

Files:

doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:

unmodifiable license text

Maintainer:

all

Description:

Locating a program in PATH (LGPLed version).

Files:

lib/findprog.h

lib/findprog.c

lib/findprog-lgpl.c

m4/findprog.m4

m4/eaccess.m4

Depends-on:

stdbool

strdup

concat-filename

unistd

configure.ac:

gl\_FINDPROG

gl\_MODULE\_INDICATOR([findprog-lgpl])

Makefile.am:

lib\_SOURCES += findprog.h findprog.c

Include:

"findprog.h"

License:

GPLv2+

Maintainer:

Bruno Haible

Description:

Extract specific portions of filenames.

Files:

lib/dirname.h

lib/dirname-lgpl.c

lib/basename-lgpl.c

lib/stripslash.c

m4/dirname.m4

Depends-on:

dosname

double-slash-root

malloc-posix

stdbool

configure.ac:

gl\_DIRNAME\_LGPL

Makefile.am:

lib\_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:

"dirname.h"

License:

LGPLv2+

Maintainer:

Jim Meyering, Eric Blake

Files:

tests/test-getcwd-lgpl.c

tests/signature.h

tests/macros.h

Depends-on:

configure.ac:

Makefile.am:

TESTS += test-getcwd-lgpl

check\_PROGRAMS += test-getcwd-lgpl

test\_getcwd\_lgpl\_LDADD = \$(LDADD) \$(LIBINTL)

Description:

realpath, canonical\_file\_name: Provide canonical absolute file name

Files:

lib/canonicalize-lgpl.c  
m4/canonicalize.m4  
m4/double-slash-root.m4

Depends-on:

extensions  
stdlib  
nocrash  
alloca-opt [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]  
errno [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]  
lstat [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test \$REPLACE\_CANONICALIZE\_FILE\_NAME  
= 1]  
malloca [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]  
memmove [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]  
pathmax [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]  
readlink [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]  
sys\_stat [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]

configure.ac:

```
gl_CANONICALIZE_LGPL
if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
  AC_LIBOBJ([canonicalize-lgpl])
fi
gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])
```

Makefile.am:

Include:

<stdlib.h>

License:

GPLv2+

Maintainer:

Bruno Haible

Description:

Concatenate two arbitrary file names.

Files:

lib/filenamecat.h  
lib/filenamecat-lgpl.c  
m4/filenamecat.m4

Depends-on:

dirname-lgpl

configure.ac:

```
gl_FILE_NAME_CONCAT_LGPL
```

Makefile.am:

```
lib_SOURCES += filenamecat-lgpl.c
```

Include:

```
"filenamecat.h"
```

License:

LGPLv2+

Maintainer:

Jim Meyering

Description:

Ensure getcwd(NULL, 0) returns a buffer allocated by malloc().

Files:

lib/getcwd-lgpl.c  
m4/getcwd.m4

Depends-on:

unistd  
strdup [test \$REPLACE\_GETCWD = 1]

configure.ac:

```
gl_FUNC_GETCWD_LGPL  
if test $REPLACE_GETCWD = 1; then  
  AC_LIBOBJ([getcwd-lgpl])  
fi  
gl_UNISTD_MODULE_INDICATOR([getcwd])
```

Makefile.am:

Include:

```
<unistd.h>
```

License:

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Maintainer:

Eric Blake

Files:

tests/test-canonicalize-lgpl.c

tests/signature.h

tests/macros.h

Depends-on:

ignore-value

same-inode

symlink

configure.ac:

Makefile.am:

TESTS += test-canonicalize-lgpl

check\_PROGRAMS += test-canonicalize-lgpl

Description:

Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:

doc/relocatable.texi

lib/relocatable.h

lib/relocatable.c

m4/relocatable-lib.m4

Depends-on:

strdup

configure.ac:

gl\_RELOCATABLE\_LIBRARY

Makefile.am:

DEFS += -DNO\_XMALLOC

Include:

"relocatable.h"

License:

LGPLv2+

Maintainer:

Bruno Haible, Ben Pfaff

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Ty Coon, President of Vice

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Version 3, 29 June 2007

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You can release a program yourself under copyleft distribution terms such as the GNU GPL. (In order to accept the program as GNU software, we would have to be happy with your choice of terms.) This does not require a contract between you and the FSF, but we would appreciate having a signed piece of paper to confirm your decision.

If someone violates your terms--for example, if someone gets a copy from us, and uses it as a basis for a proprietary product in violation of the terms--we cannot sue him. You would have to sue, or he gets away with it.

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If you put the program in the public domain, we prefer to have a signed piece of paper--a disclaimer of rights--from you confirming this. If the program is not very important, we can do without one; the worst that could happen is that we might some day be forced to stop using it.



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If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Stimulation Corporation hereby disclaims all copyright interest in the program "seduce.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Heffner.

<signature of Ty Coon>, 1 April 1987

Ty Coon, President of Vice, Digital Stimulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Heffner to the program "seduce.el".

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If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)

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Boston, MA 02110-1335  
USA

Snail a copy of the employer's disclaimer as well.

Please send me email about what you decide to do. If you have any questions, or would like something to be changed, ask rms@ai.mit.edu via email.

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Otherwise, please write down the answers and snail this with your assignment.

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[What year were you born?]

[What is your email address?]

[Please write your snail address here, so we can snail a copy back to you.]

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I'd like to ask you to sign a disclaimer for the program, thus putting it in the public domain. (For a small program such as this, it's not worth our trying to assert a copyleft.)

I, <name of person>, hereby disclaim all copyright interest in my program <program> which does <one-line description>.

I affirm that I have no other intellectual property interest that would undermine this release, and will do nothing to undermine it in the future. I represent that the work is my own and not a copy of someone else's work.

<signature and date>

\*Don't forget to include the date.\*

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For the Free Software Foundation,  
Richard Stallman, President:

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Please print this as a separate page.

[For the copyright registration, what country are you a citizen of?  
What year were you born? Please write the information here; sending  
it separately (eg. in a message) makes extra clerical work for us.]

[What is your email address?]

[Please write your snail address here, so we can snail a copy back to you.]  
Please email the following information to [assign@gnu.org](mailto:assign@gnu.org), and we will  
send you the assignment form that covers the changes you have already  
written. That form will cover subsequent corrections to those  
changes, but it will not cover other unrelated future changes to the  
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-----  
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[What is the name of the program or package you're contributing to?]

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[Do you have an employer who might have a basis to claim to own  
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[Which files have you changed so far, and which new files have you written so far?]

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```

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```
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```

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## 3.65 gnutls 3.4.9 :r0

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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## 3.66 gobject-introspection 1.46.0 :r0

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## 3.68 grep 2.23 :r0

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## 3.69 grpc 1.2.5 :r0

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## 3.70 grub 2.00 :r1

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Version 3, 29 June 2007

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## 3.72 harfbuzz 1.2.3 :r0

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```
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```

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the Free Software Foundation; either version 2 of the License, or  
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```

```
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```
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```

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## 3.74 i2c-tools 3.1.2 :r0

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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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## 3.75 icu 56.1 :r0

### 3.75.1 Available under license :

```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

## 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 library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## 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) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

```

## 3.76 initscripts 1.0 :r155.3

### 3.76.1 Available under license :

Upstream-Status: Inappropriate [licensing]

```

diff --git a/COPYING b/COPYING
new file mode 100644
index 0000000..d511905
--- /dev/null
+++ b/COPYING
@@ -0,0 +1,339 @@
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## 3.77 inotify-tools 3.14 :r0

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man/heapsort.3  
man/nlist.3  
man/queue.3bsd  
man/radixsort.3  
man/reallocarray.3  
man/reallocf.3  
man/setmode.3  
man/strmode.3  
man/strnstr.3  
man/unvis.3  
man/vis.3  
man/wcsncpy.3  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
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man/humanize\_number.3  
man/stringlist.3  
src/fmtcheck.c  
src/humanize\_number.c  
src/stringlist.c

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include/bsd/sys/endian.h  
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man/closefrom.3  
man/flopen.3  
man/getpeereid.3  
man/pidfile.3  
src/expand\_number.c  
src/hash/sha512.h  
src/hash/sha512c.c  
src/pidfile.c  
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man/strncpy.3  
man/strtonum.3  
src/arc4random.c  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
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src/hash/md5.c

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## 3.96 libcgrouop 0.41 :r0.3

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Version 2.1, February 1999

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## 3.100 libdaemon 0.14 :r0

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## 3.106 libgpg-error 1.21 :r0

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```

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## 3.107 libhugetlbfs 2.19 :r0

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## 3.112 libnewt 0.52.18 :r0

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## 3.113 libnfsidmap 0.25 :r0

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## 3.114 libnl 3.2.25 :r1

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## 3.120 libpcre 8.38 :r0

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Written by: Philip Hazel  
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January 15, 2016

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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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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.

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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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October 28, 1997

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Sam Lantinga (slouken@libsdl.org)

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Version 2.1, February 1999

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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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(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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## 3.127 libsmi 0.5.0 :r0

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.

Version: 1.1.2

Entered-date: 23MAR97

Description: C-functions for parsing command line options, both traditional one-character options, and GNU'ish --long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>

Alternate-site: [sunsite.unc.edu/pub/Linux/libs/shhopt-1.1.2.tar.gz](http://sunsite.unc.edu/pub/Linux/libs/shhopt-1.1.2.tar.gz)

Platforms: Requires ANSI C-compiler.

Copying-policy: BeerWare: If you have the time and money, send me a bottle of your favourite beer. If not, just send me a mail or something. Copy and use as you wish; just leave the author's name where you find it.

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## 3.128 libsndfile1 1.0.26 :r0

### 3.128.1 Available under license :

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```

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## 3.129 libtasn1 4.7 :r0

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Version 2.1, February 1999

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```

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## 3.132 libunwind 1.1 :r0

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## 3.133 liburcu 0.9.1 :r0

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Mathieu Desnoyers

May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:

<http://lists.casi.polymtl.ca/pipermail/ltt-dev/2009-May/001584.html>

I (Mathieu Desnoyers) re-implemented ACCESS\_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009 :

<http://lkml.org/lkml/2009/5/13/16>

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic\_ops project:

[http://www.hpl.hp.com/research/linux/atomic\\_ops/](http://www.hpl.hp.com/research/linux/atomic_ops/)

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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September 3, 2012

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LGPL-compatible source code can statically use the library header using :

```
#define _LGPL_SOURCE
#include <urcu.h>
```

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m4/ax\_tls.m4

## 3.134 libusb-compat 0.1.5 :r0

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## 3.135 libusb1 1.0.20 :r0

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## 3.137 libvirt 1.3.2 :r1

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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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```
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#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
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}

#endif
```

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.. note::

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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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{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
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}

#endif
```

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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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{
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|| strcmp(license, "GPL v2") == 0
|| strcmp(license, "GPL and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
|| strcmp(license, "Dual MIT/GPL") == 0
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}

#endif
```

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```
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for the initial saa7146 driver and its recent overhaul
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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>  
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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

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</appendix>

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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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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.

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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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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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 Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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```
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```
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```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{
```

```
return (strcmp(license, "GPL") == 0
```

```
|| strcmp(license, "GPL v2") == 0
```

```
|| strcmp(license, "GPL and additional rights") == 0
```

```
|| strcmp(license, "Dual BSD/GPL") == 0
```

```
|| strcmp(license, "Dual MIT/GPL") == 0
```

```
|| strcmp(license, "Dual MPL/GPL") == 0);
```

```
}
```

```
#endif
```

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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>  
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for his contributions to the dvb-net driver

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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.)

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for the IR code for the ttusb-dec driver

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for the lgdt330x frontend driver, and various bugfixes

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for the nxt2002 frontend driver

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

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Version 1.0

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</appendix>

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Alan Cox <alan@lxorguk.ukuu.org.uk>

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Hardware I2C

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Radio card (ITT sound processor)

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Ragnar Hojland Espinosa <ragnar@macula.net>

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```
/* nicstar.c v0.22 Jawaid Bazayar (bazayar@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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```
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#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
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        || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
```

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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

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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <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.)

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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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```

/* 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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        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
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}

#endif
```

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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>  
for CyberLogin for Linux which allows logging onto EON  
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single nxt200x frontend 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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 \* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
 \*  
 \* M. Welsh, 6 July 1996  
 \*  
 \*  
 \*/

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{  
    return (strcmp(license, "GPL") == 0  
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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@novacomp.it>  
for CyberLogin for Linux which allows logging onto EON  
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for the driver for the Technisat SkyStar2 PCI DVB card

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for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>



for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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for the nxt2002 frontend driver

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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  
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Alan Cox [alan@lxorguk.ukuu.org.uk](mailto:alan@lxorguk.ukuu.org.uk)

Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch

Hardware I2C

Gerd Knorr [kraxel@cs.tu-berlin.de](mailto:kraxel@cs.tu-berlin.de)

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bigfoot [bigfoot@net-way.net](mailto:bigfoot@net-way.net)

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```
/*
```

```
#ifndef _msCopyright_h
#define _msCopyright_h
```

```
#define MSAPI_COPYRIGHT "Copyright 2000~2013, Marvell International Ltd."
#define MSAPI_VERSION "3.3"
```

```
#endif /* _msCopyright_h */
```

```
/* 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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```

```
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{
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        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}
```

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## 3.151 llvm-libunwind

3.8.0+gitAUTOINC+06cf4b238f\_fda3549c01\_8  
d4e51dd9c\_25647b29dd :r0

## 3.152 Imsensors 3.4.0 :r0

### 3.152.1 Available under license :

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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 sensor thereto.  
Many optimizations in libsensors and sensors.  
Configuration file converter.  
Rewrite of sensors-detect.  
Support for multiple configuration files in libsensors.

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
# Example makefile for build outside of the LTTng-UST tree.
```

```
hello:
  ${CC} -O2 -I. -o hello -lc -lltng-ust hello.c tp.c
```

.PHONY: clean

clean:

rm -f hello

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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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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.

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## 3.158 lvm2 2.02.138 :r0

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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.

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* imap_gssapi.c is partially derived from sample code in:  
* GSS-API Programming Guide  
* Part No: 816-1331-11  
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.  
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*/
```

```
=====  
  
/* md5.h and md5.c are derived from RFC 1321:
```

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\* hmac.c is derived from:

Network Working Group     H. Krawczyk  
Request for Comments: 2104     IBM  
Category: Informational     M. Bellare  
                              UCSD  
                              R. Canetti  
                              IBM  
                              February 1997

#### HMAC: Keyed-Hashing for Message Authentication

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#### Appendix -- Sample Code

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Version 1.1

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## 3.163 make 4.1 :r0

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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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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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## 3.172 netcat-openbsd 1.105 :r0

### 3.172.1 Available under license :

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Source: <http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/>

Files: netcat.c

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Files: atomicio.\*

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## 3.173 netcf 0.2.8+gitAUTOINC+9158278ad3 :r0

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# 3.174 netkit-rsh 0.17 :r0

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Version 3, 29 June 2007

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/\* -\*- Mode: Text -\*- \*/

```
copyright = {  
  date = "1992-2017";  
  owner = "The University of Delaware and Network Time Foundation";  
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";  
  type = ntp;  
};
```

```
long-opts;  
config-header = config.h;  
environrc;  
no-misuse-usage;  
version-proc = ntpOptionPrintVersion;
```

```
version = `  
eval VERSION=`sed -e 's/.*,\\[//' -e 's/\\.*/' < ../sntp/m4/version.m4`  
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid  
echo $VERSION`;
```

```
version-value = "; /* Don't use -v as a shortcut for --version */
```



```

/*
* HMS: man pages already have this, and texi pages can use the
* values in snmp/include/version.texi .
*/
// doc-sub = {
//   sub-name = version;
//   sub-text = 's/#VERSION#/<<version>>/g';
// };
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<meta http-equiv="content-type" content="text/html;charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
 "Clone me," says Dolly sheepishly.
<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
  UTC</p>
<br clear="left">
</p>
<hr>
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```

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<p>The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.</p>

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- <li><a href="mailto:%20mark\_andrews@isc.org">Mark Andrews <mark\_andrews@isc.org></a> Leitch atomic clock controller</li>
- <li><a href="mailto:%20altmeier@atsoft.de">Bernd Altmeier <altmeier@atsoft.de></a> hopf Elektronik serial line and PCI-bus devices</li>
- <li><a href="mailto:%20vbais@mailman1.intel.co">Viraj Bais <vbais@mailman1.intel.com></a> and <a href="mailto:%20kirkwood@striderfm.intel.com">Clayton Kirkwood <kirkwood@striderfm.intel.com></a> port to WindowsNT 3.5</li>
- <li><a href="mailto:%20michael.barone@lmco.com">Michael Barone <michael,barone@lmco.com></a> GPSVME fixes</li>
- <li><a href="mailto:%20karl@owl.HQ.ileaf.com">Karl Berry <karl@owl.HQ.ileaf.com></a> syslog to file option</li>

- <li><a href="mailto:%20greg.brackley@bigfoot.com">Greg Brackley <greg.brackley@bigfoot.com></a> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.</li>
- <li><a href="mailto:%20Marc.Brett@westgeo.com">Marc Brett <Marc.Brett@westgeo.com></a> Magnavox GPS clock driver</li>
- <li><a href="mailto:%20Piete.Brooks@cl.cam.ac.uk">Piete Brooks <Piete.Brooks@cl.cam.ac.uk></a> MSF clock driver, Trimble PARSE support</li>
- <li><a href="mailto:%20nelson@bolyard.me">Nelson B Bolyard <nelson@bolyard.me></a> update and complete broadcast and crypto features in sntp</li>
- <li><a href="mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca">Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca></a> IPv6 support</li>
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- <li><a href="mailto:%20clift@ml.csiro.au">Steve Clift <clift@ml.csiro.au></a> OMEGA clock driver</li>
- <li><a href="mailto:%20casey@csc.co.za">Casey Crellin <casey@csc.co.za></a> vxWorks (Tornado) port and help with target configuration</li>
- <li><a href="mailto:%20Sven\_Dietrich@trimble.COM">Sven Dietrich <sven\_dietrich@trimble.com></a> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.</li>
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- <li><a href="mailto:%20duwe@immd4.informatik.uni-erlangen.de">Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de></a> Linux port</li>
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- <li><a href="mailto:%20phk@FreeBSD.ORG">Poul-Henning Kamp <phk@FreeBSD.ORG></a> Oncore driver (Original author)</li>
- <li><a href="http://www4.informatik.uni-erlangen.de/%7Ekardel">Frank Kardel</a> <a href="mailto:%20kardel%20%28at%29%20ntp%20%28dot%29%20org"><kardel (at) ntp (dot) org></a> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>
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<li><a href="mailto:%20vixie@vix.com">Paul A Vixie <vixie@vix.com></a> TrueTime GPS driver, generic
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## **3.180 open-vm-tools 10.0.7 :r0**

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Version 2.1, February 1999

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```
>>> base64.c-none
>>> convertutf.c/h from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0
```

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```
>>> base64.c-none
```

base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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Version 2.8, 17 August 2003

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*
* 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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## 3.183 opkg-utils

# 0.1.8+gitAUTOINC+53274f0875 :r0

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## 3.184 oprofile 1.1.0 :r0

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@c Local Variables:  
@c ispell-local-pdict: "ispell-dict"  
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## 3.187 pciutils 3.4.1 :r0

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## 3.189 perl 5.22.1 :r0

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The End

```
#!/perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

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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 TestInit;
```

```
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;
}

```

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```
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```

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```
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```

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```
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at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

-----  
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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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## 3.190 picocom 2.2+gitAUTOINC+deffd18c24

:r0

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The following people contributed improvements, fixes, suggestions, and comments:

- Oliver Kurth ([oku@debian.org](mailto:oku@debian.org)) contributed bug fixes and the manual page for picocom.
- Julius P. Malkiewicz ([julius@sonartech.com.au](mailto:julius@sonartech.com.au)) contributed FreeBSD portability fixes, the C-\ command implementation, the UUCP locks implementation, and other minor fixes.
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- ([lwithers@gmail.com](mailto:lwithers@gmail.com)) contributed fixes to select(2) and read(2) error handling.
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- Edgar Johansen ([edgar@storteig.com](mailto:edgar@storteig.com)) suggested conditionals to enable compilation without UUCP\_LOCK\_DIR
- Scott Tsai ([scott.tw@gmail.com](mailto:scott.tw@gmail.com)) suggested better UUCP\_LOCK\_DIR definition
- Josh Handley (<https://github.com/jhandley>) added support for line-editing, autocompletion and history when entering "send" and "receive" file names. Editing support uses the "linenoise" library. See: <https://github.com/jhandley/picocom>
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- From Cody Schafer's (<https://github.com/jmesmon>) fork originated the idea to add custom baudrate support to picocom. See: <https://github.com/jmesmon/picocom>
- From Paul Chakravarti's (<https://github.com/paulchakravarti>) fork originated the idea to add support for disabling the send- and receive-file commands, and for not using the shell when executing external programs (to avoid shell escapes). See: <https://github.com/paulchakravarti/picocom-noexec>

- Vicente Olivert Riera (Vincent.Riera@imgtec.com) contributed minor patches
- Peter Bradstreet (peter.bradstreet@oracle.com) helped diagnose input performance problems on overloaded / slow systems.
- Cody Planteen (<https://github.com/planteen>) contributed the implementation of the toggle-RTS command.
- Joe Merten (<https://github.com/Joe-Merten>) contributed the --lower-rts and --lower-dtr options, custom baudrate support for OSX, the --logfile option implementation, and several bug-fixes.

## 3.191 pixman 0.32.8 :r0

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## 3.193 polycoreutils 2.5 :r0

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### 0.0.0+gitAUTOINC+0deb9c7e13 :r0

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## 3.199 protobuf

### 3.1.0+gitAUTOINC+a428e42072 :r0

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- \* Fix compiler to not make output executable.

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- \* Heuristic detection of sub-messages when printing unknown fields in text format.

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- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

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- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

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- \* Fixed initialization ordering problem in logging code.

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- \* Small patch improving performance of in Python serialization.

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- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- \* HPUX support.

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- \* Detect whether zlib is new enough in configure script.

- \* Fixes for Solaris 10 32/64-bit confusion.

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- \* Optimize Java serialization code when writing a small message to a stream.

- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

- \* Clean up some Java warnings.

- \* Fix bug with permanent callbacks that delete themselves when run.

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- \* Fixed detection of sched\_yield on Solaris.

- \* Added atomicops for Solaris

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- \* Fixed minor IBM xLC compiler build issues

- \* Added atomicops for AIX (POWER)

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## 3.200 protobuf-c 1.2.1 :r0

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## 3.202 ptest-runner

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## 3.203 pulseaudio 8.0 :r0

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Version 2.1, February 1999

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## 3.204 python 2.7.11 :r1

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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.

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Release	Derived	Year	Owner	GPL-
	from			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
2.1.2	2.1.1	2002	PSF	yes
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## 3.206 python-cffi 1.5.2 :r0

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## 3.221 python-pyopenssl 16.2.0 :r0

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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 (see <http://www.digicool.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. Digital Creations is a sponsoring member of the PSF.

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
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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.

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and  
`:func:`getnameinfo``, which are coded in separate source files from the WIDE  
Project, <http://www.wide.ad.jp/>. ::

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Floating point exception control

-----

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-----

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The `C` version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----

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Select kqueue

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SipHash24

-----

The file `:file:`Python/pyhash.c`` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

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djb ([supercop/crypto\\_auth/siphash24/little2](https://github.com/supercop/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

-----

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

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The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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libmpdec

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The `:mod:`_decimal`` Module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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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 --;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX --;
+           else
+               M.x86.R_CX --;
            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("RETF\t");
    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("RETF\n");
- 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 @@

```

```

#ifdef __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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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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- 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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\*/

```
{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ 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 },
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{ 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 },
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{ 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 },
{ 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 },
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{ 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 },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },

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{ 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 },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },

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{ 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 },
{ 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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That's all there is to it!

\$Id\$

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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 state 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) <year> <name of author>
```

```
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
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```

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```

Also add information on how to contact you by electronic and paper mail.

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>

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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, your program's commands might be different; for a GUI interface, you would use an "about box".

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## 3.235 run-postinsts 1.0 :r9

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## 3.236 sbc 1.3 :r0

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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

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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

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## 3.237 screen 4.3.1 :r0

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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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# 3.244 setserial 2.17 :r3

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Version 2, June 1991

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## 3.245 sfdisk 2.25.2 :r0

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Initialize empty image

`f1c9645dbc14efddc7d8a322685f26eb` `bsd.img`

Create new DOS partition table

`57e721e38d1266c2df055067c18f2cf9` `bsd.img`

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

-----

Create 1st primary partition

`ada64ace122978d00d1d1c0e5ee45d26` `bsd.img`

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux

-----

Create 2st primary partition

`1bebf87248e05d6e4e62b749da65d023` `bsd.img`

Set 2nd partition type

`2d8e8dff51a88a045db233418dd73fbc` `bsd.img`

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: dos  
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux
<removed>2		4096	20479	16384	8M	a5	FreeBSD

-----  
Create default BSD  
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----  
Welcome to fdisk <removed>.  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors  
Geometry: 255 heads, 63 sectors/track, 1 cylinders  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: bsd  
partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----  
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----  
Welcome to fdisk <removed>.  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: BSD

partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
a	4096	6144	2049	1M	4.2BSD	0	0	0
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0	unused	5	4.1BSD	9	4.4LFS	d	boot
1	swap	6	Eighth Edition	a	unknown	e	ADOS
2	Version 6	7	4.2BSD	b	HPFS	f	HFS
3	Version 7	8	MS-DOS	c	ISO-9660	10	AdvFS
4	System V						

Command (m for help):

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## 3.246 sg3-utils 1.41 :r0

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## 3.249 shared-mime-info 1.6 :r0

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## 3.257 sysfsutils 2.1.0 :r5

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## 3.258 sysklogd 1.5.1 :r0

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## 3.263 tar 1.28 :r0

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Version 3, 29 June 2007

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## 3.267 tipcutils 2.0.6 :r0

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/\*

\* tipc-config.c: TIPC configuration management tool

\*

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## 3.273 util-linux 2.27.1 :r0.3

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Initialize empty image

`f1c9645dbc14efddc7d8a322685f26eb` bsd.img

Create new DOS partition table

`57e721e38d1266c2df055067c18f2cf9` bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

-----

Create 1st primary partition

`ada64ace122978d00d1d1c0e5ee45d26` bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type

<removed>1 2048 4095 2048 1M 83 Linux

-----

Create 2st primary partition

`1bebf87248e05d6e4e62b749da65d023` bsd.img

Set 2nd partition type

`2d8e8dff51a88a045db233418dd73fbe` bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos  
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux
<removed>2		4096	20479	16384	8M	a5	FreeBSD

-----  
Create default BSD  
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Welcome to fdisk <removed>.  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors  
Geometry: 255 heads, 63 sectors/track, 1 cylinders  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: bsd

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----  
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors  
Geometry: 255 heads, 63 sectors/track, 1 cylinders  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: BSD

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
a	4096	6144	2049	1M	4.2BSD	0	0	0
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):  
-----

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0	unused	5	4.1BSD	9	4.4LFS	d	boot
1	swap	6	Eighth Edition	a	unknown	e	ADOS
2	Version 6	7	4.2BSD	b	HPFS	f	HFS
3	Version 7	8	MS-DOS	c	ISO-9660	10	AdvFS
4	System V						

Command (m for help):

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=====  
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. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is

visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. 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 Lisse.

This will allow for tax deduction if you live in Holland.  
Postbank, nr. 4548774  
IBAN: NL95 INGB 0004 5487 74

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](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: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

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:

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:

## 3.277 volatile-binds 1.0 :r0

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## 3.278 wireshark 2.0.13 :r0

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```
/* <filename>.c
```

```
*
```

```
* Wireshark - Network traffic analyzer
```

```
* By Gerald Combs <gerald@wireshark.org>
```

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This package was debianized by Frederic Peters <fpeters@debian.org> on  
Sun, 13 Sep 1998 23:05:47 +0200

It was downloaded from <http://www.wireshark.org/download/src/all-versions/>

The Wireshark web site URL is <http://www.wireshark.org/>

Upstream Authors:

Gerald Combs <gerald@wireshark.org> and contributors

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gtk/ethclist.c: idem

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\* L. Peter Deutsch  
\* ghost@aladdin.com

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epan/except.h:

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epan/dissectors/packet-etherip.c:

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epan/dissectors/packet-vj.c:

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\*

\* Routines to compress and uncompress TCP packets (for transmission

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\*

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 Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD

=====

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required

-----

Wireshark requires a number of additional programs to function.  
Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

glib 2.16 or later:

[ftp.gnome.org/pub/gnome/sources/glib/](ftp://ftp.gnome.org/pub/gnome/sources/glib/)  
<http://ftp.gnome.org/pub/gnome/sources/glib/>

pkgconfig:

<http://pkgconfig.freedesktop.org/releases/>

python 2.5 or later:

<https://www.python.org/downloads/source/>

If you want to use the Wireshark GUI, install one or both of these toolkits:

gtk+ 2.12 or later:

[ftp.gnome.org/pub/gnome/sources/gtk+/](ftp://ftp.gnome.org/pub/gnome/sources/gtk+/)  
<http://ftp.gnome.org/pub/gnome/sources/gtk+/>

Qt 4.7 or later:

[http://download.qt-project.org/official\\_releases/qt/](http://download.qt-project.org/official_releases/qt/)

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality. These can be found by typing `./configure --help` or looking at the output at the end of running the configure script.

## 2. Compiling Wireshark

-----  
To compile Wireshark with the default options, run `configure`, `make` and `make install` (you may have to run `"autogen.sh"` first):

```
./configure
make
make install
```

The `configure` and `make` steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run `make install` as root in order to copy the program to the proper directories.

### 3. Berkeley Packet Filter (BPF) requirement

-----  
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw----- 1 root wheel  0, 90 Aug 10 21:05 /dev/bpf0
crw----- 1 root wheel  0, 91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

### 4. Running wireshark as a non-root user

-----  
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s). If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path 'bpf*' { mode and permissions }
```

where "mode and permissions" can include clauses such as

```
mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

user {user}

to set the user who owns the device, or

group {group}

to set the group that owns the device and adding a line such as

```
devfs_system_ruleset=localrules
```

to /etc/rc.conf. For example, an /etc/devfs.rules file with

```
[localrules=10]
add path 'bpf*' mode 0660 group wheel
```

will grant read and write permissions on all BPF devices to all users in the "wheel" group.

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#
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http://www.opensync.org/browser/branches/3rd-party-cmake-modules/modules
```

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## 3.279 xcheck 1.0 :r0

## 3.280 xinetd 2.3.15 :r2

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So, if you want, you may use any 2.N.\* (N >= 3) version string for future xinetd versions that you release. Note that I am excluding the 2.2.\* line; using that would only create confusion. Naming the next release 2.3.0 would put to rest the confusion about 2.2.1 and 2.1.8.\*.

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## 3.281 xz 5.2.2 :r0

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Version 2.1, February 1999

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## 3.282 xz / gplv2-portions 5.2.2 :r0

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## 3.283 xz / gplv3-portions 5.2.2 :r0

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## 3.284 yajl 2.1.0 :r0

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