



# Open Source Used In FireSIGHT System Version 5.4.0.x

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## 2.5 apr-util 1.4.1

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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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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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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).

-----

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

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT

Message-Id: <9505251618.AA16031@tepui.cli.com>  
From: friedman@gnu.ai.mit.edu (Noah Friedman)  
To: chet@po.cwru.edu  
Subject: Bash scripts  
Reply-To: friedman@gnu.ai.mit.edu  
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400  
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>  
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on  
>the FSF machines (naughty, I know), and I was wondering if you'd let  
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in  
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and  
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcedt@armory.com Wed May 10 10:21:11 1995  
Flags: 10  
Return-Path: spcedt@armory.com  
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP  
(8.6.10+cwru/CWRU-2.1-ins)  
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)  
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with  
SMTP (8.6.10+cwru/CWRU-2.3)  
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)  
From: John DuBois <spcedt@armory.com>  
Date: Tue, 9 May 1995 22:33:12 -0700  
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>  
"ksh scripts" (May 9, 1:36pm)  
X-Www: http://www.armory.com/~spcedt/  
X-Mailer: Mail User's Shell (7.2.5 10/14/92)  
To: chet@po.cwru.edu  
Subject: Re: ksh scripts  
Message-ID: <9505092233.aa13001@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
```

## 2.9 beecrypt 3.1.0

### 2.9.1 Available under license :

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Version 2, June 1991

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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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## 2.10 bind 9.5.0-P2

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-->

<!-- \$Id: copyright.xml,v 1.6 2007/06/19 23:47:13 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

```
<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>
```

```
<xsl:variable name="isc.copyright.text">
  <xsl:text>
    Permission to use, copy, modify, and distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
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```

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```
</xsl:text>
</xsl:variable>
```

```
<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
```

```

</xsl:call-template>
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
<xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->

```

## 2.11 binutils 2.22

### 2.11.1 Available under license :

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Version 3, 29 June 2007

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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.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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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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## 2.12 bird 1.3.8

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from README

<snip>

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```

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```

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#

<snip>

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Julian Seward, Cambridge, UK.

[jseward@acm.org](mailto:jseward@acm.org)

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/\*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo ([tsuneo@rr.iij4u.or.jp](mailto:tsuneo@rr.iij4u.or.jp))

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```

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*/
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## 2.19 Cache-Memcached-Fast 0.17

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from README

<snip>

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

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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) 19xx 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 a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

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

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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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## 2.20 cairo 1.7.4

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## 2.21 Carp-Clan 6.04

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```
=====  
Package "Carp::Clan"  
=====
```

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Abstract:  
-----

This module reports errors from the perspective of the caller of a "clan" of modules, similar to "Carp.pm" itself. But instead of giving it a number of levels to skip on the calling stack, you give it a pattern to characterize the package names of the "clan" of modules which shall never be blamed for any error. :-)

So these modules stick together like a "clan" and any error which occurs will be blamed on the "outsider" script or modules not belonging to this "clan".

What's new in this release:  
-----

Version 6.04 24.10.2009

- + Solved RT ticket #50796 (inform type of license)
- + Made the test suite compatible with Perl versions < v5.6.0

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Prerequisites:

-----

Perl version 5.005\_03 or higher.

(Should probably also work with older versions of Perl, however.)

Installation:

-----

As usual:

```
perl Makefile.PL
make
make test
make install
```

Changes over previous versions:

-----

Please refer to the file "Changes" in this distribution for a more detailed version history log.

What does it do:

-----

This module is based on "Carp.pm" from Perl 5.005\_03. It has been modified to skip all package names matching the pattern given in the "use" statement inside the "qw()" term (or argument list).

Suppose you have a family of modules or classes named "Pack::A", "Pack::B" and so on, and each of them uses "Carp::Clan qw(^Pack::);" (or at least the one in which the error or warning gets raised).

Thus when for example your script "tool.pl" calls module "Pack::A", and module "Pack::A" calls module "Pack::B", an exception raised in module "Pack::B" will appear to have originated in "tool.pl" where "Pack::A" was called, and not in "Pack::A" where "Pack::B" was called, as the unmodified "Carp.pm" would try to make you believe :-).

This works similarly if "Pack::B" calls "Pack::C" where the exception is raised, etcetera.

In other words, this blames all errors in the "Pack::\*" modules on the user of these modules, i.e., on you. ;-)

The skipping of a clan (or family) of packages according to a pattern describing its members is necessary in cases where these modules are not classes derived from each other (and thus when examining "@ISA" - as in the original "Carp.pm" module - doesn't help).

The purpose and advantage of this is that a "clan" of modules can work together (and call each other) and throw exceptions at various depths down the calling hierarchy and still appear as a monolithic block (as though they were a single module) from the perspective of the caller.

In case you just want to ward off all error messages from the module in which you "use Carp::Clan", i.e., if you want to make all error messages or warnings to appear to originate from where your module was called (this is what you usually used to "use Carp;" for ;-), instead of in your module itself (which is what you can do with a "die" or "warn" anyway), you do not need to provide a pattern, the module will automatically provide the correct one for you.

I.e., just "use Carp::Clan;" without any arguments and call "carp" or "croak" as appropriate, and they will

automatically defend your module against all blames!

In other words, a pattern is only necessary if you want to make several modules (more than one) work together and appear as though they were only one.

Contact Authors:

-----

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<http://www.engelschall.com/u/sb/download/>

## 2.22 CGI-Session 4.42

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## 2.23 CGI.pm 3.63

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/\*

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## 2.26 Class-Data-Inheritable 0.08

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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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it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
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```



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```
Gnomovision version 69, Copyright (C) 19xx 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.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.27 Class-ErrorHandler 0.01

### 2.27.1 Available under license :

```
=head1 LICENSE
```

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```
=head1 AUTHOR & COPYRIGHT
```

Except where otherwise noted, I<Class::ErrorHandler> is Copyright 2004 Benjamin Trott, cpan@stupidfool.org. All rights reserved.

name: Class-ErrorHandler  
version: 0.01  
abstract: Base class for error handling  
author: Benjamin Trott <cpan@stupidfool.org>  
license: perl  
distribution\_type: module  
no\_index:  
directory:  
- t  
- inc  
generated\_by: Module::Install version 0.33  
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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
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!

## 2.28 Class-Generate 1.1

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

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```

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```

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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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Ty Coon, President of Vice

That's all there is to it!

## 2.29 Class-Loader 2.02

### 2.29.1 Available under license :

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from lib/Class/Loader.pm

<snip>

##

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<snip>

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=cut

from lib/Class/LoaderTest.pm

<snip>

```
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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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## 2.30 Class-Singleton 1.4

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```

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```
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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
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!

# 2.31 Class-XPath 1.4

## 2.31.1 Available under license :

from README...

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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
```

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!

## 2.32 clish 0.7.3

### 2.32.1 Available under license :

/\*\*

\page \_licence\_page Licence

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<HR>

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\verbatim

clish/

clish/command

clish/param

clish/pargv

clish/ptype

clish/shell

clish/variable

clish/view

lub/

lub/argv

lub/bintree

lub/blockpool

lub/test

lub/dump

lub/string

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\verbatim

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tinyrl/history  
tinyrl/vt100

lub/heap/  
lub/heap/vxworks  
lub/heap/posix  
lub/dblockpool  
lubheap/  
lubheap/vxworks  
lubheap/posix

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\section \_tinyxml Yves Berquin

As of release 0.6 the tinyxml library is included (unchanged) as part of the distribution.

\verbatim

tinyxml (v2.5.1)

\endverbatim

<http://www.sourceforge.net/projects/tinyxml>

Original file by Yves Berquin.

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\section \_binutils GNU binutils

As of release 0.7.1 libbfd can be used to resolve symbols for stacktraces. This feature can be turned off if linking with GPL code is problematic, using "configure --without-gpl".

The Binary File Descriptor library is part of GNU binutils  
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lub/heap/posix/heap\_symShow.c

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## 2.33 common-sense 3.0

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```
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```

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```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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under certain conditions; type 'show c' for details.
```

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```
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program 'Gnomovision' (a program to direct compilers to make passes
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!

## 2.35 ConcurrentLogHandler 0.9.1

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## 2.36 Config-Crontab 1.3

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That's all there is to it!  
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<snip>

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```
#!/usr/bin/perl -sw
##
## Makefile.PL for Conver::ASCII::Armour
##
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## $Id: Makefile.PL,v 1.2 2001/03/19 23:02:47 vipul Exp $
```

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```
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```

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```

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```

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```

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

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## 2.38 Convert-ASN1 0.22

### 2.38.1 Available under license :

I consider Convert::ASN1 a replacement for my earlier Convert::BER module. While ASN1.pm is not as flexible as BER.pm, because PDUs must be described up front, it is also more powerful. For example an LDAP filter is a recursive structure, BER.pm cannot encode or decode this in a single pass, ASN1.pm can.

Convert::ASN1 will parse ASN.1 descriptions and will encode from and decode to perl data structures using a hierarchy of references.

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The latest release is available from CPAN

<http://search.cpan.org/author/GBARR/Convert-ASN1>

INSTALL

To install run these commands, substituting x.xx for the version number

that you have downloaded

```
gunzip Convert-ASN1-x.xx.tar.gz
tar xvf Convert-ASN1-x.xx.tar
cd Convert-ASN1-x.xx
perl Makefile.PL
make
make test
make install
```

## REPORTING BUGS

If you find any bugs with Convert::ASN1, please report them via

```
bugs-Convert-ASN1@rt.cpan.org
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```

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```
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```

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## 2.39 Convert-PEM 0.07

### 2.39.1 Available under license :

from /lib/Convert/PEM.pm

<snip>

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Benjamin Trott, ben@rhumba.pair.com

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```
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```

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```
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```

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

That's all there is to it!

## 2.40 coreutils 8.22

### 2.40.1 Available under license :

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## 2.41 cpio 2.4.2.91

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

That's all there is to it!

## 2.42 cracklib 2.8.12

### 2.42.1 Available under license :

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```

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```
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```

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```
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```

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

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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.

-----

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; delp=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.

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Happy now? :-)

-a

## 2.43 cronie 1.2

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```
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```

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

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## 2.46 Crypt-Cracklib 1.4

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from META.yml

```
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```

```
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```

```
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```
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```

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```
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```

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

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from /lib/Crypt/DES\_EDE3.pm

<snip>

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Benjamin Trott, ben@rhumba.pair.com

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# 2.51 Crypt-OpenSSL-AES 0.02

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## 2.52 Crypt-OpenSSL-Random 0.06

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## 2.53 Crypt-OpenSSL-X509 1.1

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## 2.54 Crypt-PasswordMD5 1.3

### 2.54.1 Available under license :

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```
#  
# -----  
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```
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```

```
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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.
```

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

That's all there is to it!

## 2.55 Crypt-Primes 0.50

### 2.55.1 Available under license :

from README

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

That's all there is to it!

## 2.56 Crypt-Random 1.25

### 2.56.1 Available under license :

from: /lib/Crypt/Random.pm

```
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## it under the same terms as Perl itself.  
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```

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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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```
Gnomovision version 69, Copyright (C) 19xx 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.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.57 Crypt-RSA 1.99

### 2.57.1 Available under license :

from META.yml

license: perl

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from README

<snip>

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```
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```

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That's all there is to it!

## 2.59 curl 7.31.0

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## 2.60 Data-Buffer 0.04

### 2.60.1 Available under license :

from Buffer.pm

<snip>

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```
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```

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

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## 2.61 Data-Compare 1.22

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```
# Data::Compare - compare perl data structures
# Author: Fabien Tassin <fta@sofaraway.org>
# updated by David Cantrell <david@cantrell.org.uk>
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```

<snip>

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from README

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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.63 Data-UUID 1.203

### 2.63.1 Available under license :

from README

```
<snip>
```

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from META.yml

<snip>

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<snip>

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```

```
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## 2.65 Date-Calc-XS 6.2

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<snip>

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## 2.66 Date-Manip 6.11

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

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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
```

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## 2.67 DateTime 0.53

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## 2.68 DateTime-Event-Cron 0.07

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

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

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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## 2.69 DateTime-Event-ICal 0.1

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## 2.70 DateTime-Event-Recurrence 0.16

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## 2.71 DateTime-Locale 0.44

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## 2.76 DBI 1.609

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```
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```

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## 2.77 debianutils 2.7

### 2.77.1 Available under license :

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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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```
/* $OpenBSD: mktemp.c,v 1.4 1997/06/20 04:17:42 millert Exp $ */
```

```
/*
```

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## 2.78 Devel-TraceCalls 0.04

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## 2.81 diffutils 2.8.1

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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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the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
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GNU General Public License for more details.
```

```
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along with this program; if not, write to the Free Software  
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA
```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

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

That's all there is to it!

## 2.83 Digest-MD5 2.39

### 2.83.1 Available under license :

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## 2.84 Digest-SHA1 2.12



## 2.84.1 Available under license :

```
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name:      Digest-SHA1
version:   2.12
abstract:  Perl interface to the SHA-1 algorithm
author:
  - Gisle Aas <gisle@activestate.com>
license:   perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  Digest::base: 1.00
  perl: 5.004
no_index:
  directory:
    - t
    - inc
generated_by: ExtUtils::MakeMaker version 6.4801
meta-spec:
  url:  http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
repository:  http://github.com/gisle/digest-sha1
```

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Theodore Ts'o  
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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## 2.91 ebttables 2.0.8-2

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```
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```

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```
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```

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```
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```

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

Ty Coon, President of Vice

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## 2.93 eject 2.0.12

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#
# Based on my original Error.pm, and Exceptions.pm by Peter Seibel
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#
# but modified ***significantly***
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```
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```

```
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```

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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

## 2.105 ethtool 3.9

### 2.105.1 Available under license :

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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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## 2.106 ethwireck 1.2

### 2.106.1 Available under license :

ethwireck -- check if the wire in the Ethernet port is live

History

-----

This code is based on the code from the linuxjournal.com article about ioctl written by Lisa Corsetti. The original code can be found at:

<ftp://ftp.ssc.com/pub/lj/listings/issue117/README117>

and

<ftp://ftp.ssc.com/pub/lj/listings/issue117/6908.tgz>

I have contacted Lisa and she has confirmed to me that the license of the code is GPL.

A bit of research showed that the code is actually based on either the mii-diag tool from Donald Becker or the standard linux net-tools package. The code from Lisa uses



the exact same variable names and has many other lines in  
comment.

Despite this ethwireck offers really new functionality which  
is as such not available via the net-tools.

I have asked Lisa if she wants to maintain the code but  
she did not show any interest. Therefore this code  
is now maintained by me.

January 2004, Guido Socher (guido at linuxfocus.org)

#### Difference to mii-tool

-----

The functionality is similar to mii-tool however on my computer  
mii-tool will only produce this:

```
SIOCGMIIPHY on 'eth0' failed: Operation not supported
```

The reason is that there are a number of incompatible methods  
in the various ethernet drivers and mii-tool supports only  
the mii-tool interface.

ethwireck supports: ethtool interface, mii-tool and the old mii-tool  
interface.

#### Installation

-----

run

make

make install

or to not install to /usr/sbin/ethwireck but to /opt you can use  
make PREFIX=/opt install

Sofar I have tested ethwireck only with 2.4.x Kernels. Probably  
it will also work with 2.6.x Kernels but I have not used it  
on a 2.6.x Kernel.

#### DHCP clients

-----

There are basically two DHCP clients for Linux:

pump -- this one was originally part of redhat but is now hardly  
used anymore. It is still very good and easy to use therefore

I have included the source code within this package.

dhclient -- this is a more modern but also more complicated dhcp client

You can get it from: <http://www.isc.org/products/DHCP/>

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Version history

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Wed Jan 21 11:23:24 EST 2004, version 1.0

Sat Jan 24 11:44:54 EST 2004, version 1.1, README file updated

Thu Apr 15 22:32:30 EST 2004, version 1.2, ebuild file for gentoo added  
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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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## 2.110 ExtUtils-CChecker 0.07

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## 2.111 ExtUtils-Constant 0.23

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```
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Copyright (C) 19yy <name of author>
```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.112 file 5.08

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```
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<snip>

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<snip>

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```
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```

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any later version.
```

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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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## 2.115 File-Slurp 9999.13

### 2.115.1 Available under license :

```
File::Slurp.pm version 0.04
```

```
=====
```

This module provides subroutines to read or write entire files with a simple call. It also has a subroutine for reading the list of filenames in a directory.

In the `extras/` directory you can read an article (`slurp_article.pod`) about file slurping and also run a benchmark (`slurp_bench.pl`) that compares many ways of slurping/spewing files.

This module was first written and owned by David Muir Sharnoff (MUIR on CPAN). I checked out his module and decided to write a new version which would be faster, and with many more features. To that end, David graciously transferred the namespace to me.

Since then, I discovered and fixed a bug in the original module's test script (which had only 7 tests), which is included now as t/original.t. This module now has 164 tests in 7 test scripts, and passes on Windows, Linux, Solaris and Mac OS X.

There have been some comments about the somewhat unusual version number. The problem was that David used a future date (2004.0904) in his version number, and the only way I could get CPAN to index my new module was to make it have a version number higher than the old one, so I chose the 9999 prefix and appended the real revision number to it.

## INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

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

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```
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```

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

That's all there is to it!

## 2.116 findutils 4.4.0

### 2.116.1 Available under license :

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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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```

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```
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## 2.117 flashrom 0.9.5.2

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```

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

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## 2.118 fontconfig 2.6.0

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in

a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which

must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the

Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- 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

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!

## 2.122 gawk 3.1.8

### 2.122.1 Available under license :

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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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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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

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- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a



written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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Version 2, June 1991

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## 2.123 gcc 4.7.1

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```
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```

```
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```

```
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```

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Version 3, 29 June 2007

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Version 3.1, 31 March 2009

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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## 2.124 gcc 3.3.6

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Mark Maimone (Carnegie-Mellon University)  
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## 2.125 gd 2.0.35

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Although their code does not appear in gd, the authors wish to thank David Koblas, David Rowley, and Hutchison Avenue Software Corporation for their prior contributions.

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README for release 6b of 27-Mar-1998  
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and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,  
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,  
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG  
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

## DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES      Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
RELATED SOFTWARE Other stuff you should get.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO           Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc     How to configure and install the IJG software.  
usage.doc       Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1              Unix-style man pages for programs (same info as usage.doc).  
wizard.doc      Advanced usage instructions for JPEG wizards only.  
change.log      Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc     How to use the JPEG library in your own programs.  
example.c       Sample code for calling the JPEG library.  
structure.doc   Overview of the JPEG library's internal structure.  
filelist.doc    Road map of IJG files.  
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not

exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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## REFERENCES

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE,

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A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text

version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp://ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

#### ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory `graphics/jpeg`. This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact [help@uunet.uu.net](mailto:help@uunet.uu.net) for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only [ftp.uu.net](ftp://ftp.uu.net) is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the [ftp.uu.net](ftp://ftp.uu.net) release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups `comp.graphics.misc`, `news.answers`, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other `news.answers` archive sites, including the official `news.answers` archive at [rtfm.mit.edu](ftp://rtfm.mit.edu): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

send `usenet/news.answers/jpeg-faq/part1`

send `usenet/news.answers/jpeg-faq/part2`



## RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear

whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

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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.]

#### Preamble

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid

anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software

sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- 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.

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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.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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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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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```
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<signature of Ty Coon>, 1 April 1990  
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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## 2.131 ghostscript 8.63

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# 2.133 glib 1.2.10

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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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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

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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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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- 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.

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## 2.134 glib2 2.18.0

### 2.134.1 Available under license :

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THE BASIC LIBRARY FUNCTIONS

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The



threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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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# 2.136 gmp 5.0.5

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# 2.137 Graph 0.91

## 2.137.1 Available under license :

```
--- #YAML:1.0
name:      Graph
version:   0.91
abstract:  ~
author:
  - Jarkko Hietaniemi <jhi@iki.fi>
license:   perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  List::Util: 0
  Math::Complex: 0
  Safe: 0
  Scalar::Util: 0
  Storable: 2.05
  Test::More: 0
no_index:
  directory:
    - t
    - inc
generated_by: ExtUtils::MakeMaker version 6.48
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
  The "Artistic License"
```

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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

That's all there is to it!

## 2.138 grep 2.5.3

### 2.138.1 Available under license :

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Version 3, 29 June 2007

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```
eval '(exit $?0)' && eval 'exec perl -wS -0777 -pi "$0" ${1+"$@"}'  
& eval 'exec perl -wS -0777 -pi "$0" $argv:q'
```

```
if 0;
# Update an FSF copyright year list to include the current year.

my $VERSION = '2012-02-05.21:39'; # UTC

# Copyright (C) 2009-2012 Free Software Foundation, Inc.
#
# This program is free software: you can redistribute it and/or modify
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# the Free Software Foundation; either version 3, or (at your option)
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# Written by Jim Meyering and Joel E. Denny

# The arguments to this script should be names of files that contain
# copyright statements to be updated. The copyright holder's name
# defaults to "Free Software Foundation, Inc." but may be changed to
# any other name by using the "UPDATE_COPYRIGHT HOLDER" environment
# variable.
#
# For example, you might wish to use the update-copyright target rule
# in maint.mk from gnulib's maintainer-makefile module.
#
# Iff a copyright statement is recognized in a file and the final
# year is not the current year, then the statement is updated for the
# new year and it is reformatted to:
#
# 1. Fit within 72 columns.
# 2. Convert 2-digit years to 4-digit years by prepending "19".
# 3. Expand copyright year intervals. (See "Environment variables"
#    below.)
#
# A warning is printed for every file for which no copyright
# statement is recognized.
#
# Each file's copyright statement must be formatted correctly in
# order to be recognized. For example, each of these is fine:
#
# Copyright @copyright{ } 1990-2005, 2007-2009 Free Software
# Foundation, Inc.
```

```

#
# # Copyright (C) 1990-2005, 2007-2009 Free Software
# # Foundation, Inc.
#
# /*
#  * Copyright &copy; 90,2005,2007-2009
#  * Free Software Foundation, Inc.
#  */
#
# However, the following format is not recognized because the line
# prefix changes after the first line:
#
# ## Copyright (C) 1990-2005, 2007-2009 Free Software
# # Foundation, Inc.
#
# However, any correctly formatted copyright statement following
# a non-matching copyright statements would be recognized.
#
# The exact conditions that a file's copyright statement must meet
# to be recognized are:
#
# 1. It is the first copyright statement that meets all of the
#    following conditions. Subsequent copyright statements are
#    ignored.
# 2. Its format is "Copyright (C)", then a list of copyright years,
#    and then the name of the copyright holder.
# 3. The "(C)" takes one of the following forms or is omitted
#    entirely:
#
#    A. (C)
#    B. (c)
#    C. @copyright{ }
#    D. &copy;
#
# 4. The "Copyright" appears at the beginning of a line, except that it
#    may be prefixed by any sequence (e.g., a comment) of no more than
#    5 characters -- including white space.
# 5. If such a prefix is present, the same prefix appears at the
#    beginning of each remaining line within the FSF copyright
#    statement. There is one exception in order to support C-style
#    comments: if the first line's prefix contains nothing but
#    whitespace surrounding a "/*", then the prefix for all subsequent
#    lines is the same as the first line's prefix except with each of
#    "/" and possibly "*" replaced by a " ". The replacement of "*"
#    by " " is consistent throughout all subsequent lines.
# 6. Blank lines, even if preceded by the prefix, do not appear
#    within the FSF copyright statement.
# 7. Each copyright year is 2 or 4 digits, and years are separated by

```



```

# commas or dashes. Whitespace may appear after commas.
#
# Environment variables:
#
# 1. If UPDATE_COPYRIGHT_FORCE=1, a recognized FSF copyright statement
# is reformatted even if it does not need updating for the new
# year. If unset or set to 0, only updated FSF copyright
# statements are reformatted.
# 2. If UPDATE_COPYRIGHT_USE_INTERVALS=1, every series of consecutive
# copyright years (such as 90, 1991, 1992-2007, 2008) in a
# reformatted FSF copyright statement is collapsed to a single
# interval (such as 1990-2008). If unset or set to 0, all existing
# copyright year intervals in a reformatted FSF copyright statement
# are expanded instead.
# If UPDATE_COPYRIGHT_USE_INTERVALS=2, convert a sequence with gaps
# to the minimal containing range. For example, convert
# 2000, 2004-2007, 2009 to 2000-2009.
# 3. For testing purposes, you can set the assumed current year in
# UPDATE_COPYRIGHT_YEAR.
# 4. The default maximum line length for a copyright line is 72.
# Set UPDATE_COPYRIGHT_MAX_LINE_LENGTH to use a different length.
# 5. Set UPDATE_COPYRIGHT HOLDER if the copyright holder is other
# than "Free Software Foundation, Inc.".

```

```

use strict;
use warnings;

```

```

my $copyright_re = 'Copyright';
my $circle_c_re = '(?:\[cC\])|@copyright{ }|&copy;';
my $holder = $ENV{UPDATE_COPYRIGHT_HOLDER};
$holder ||= 'Free Software Foundation, Inc.';
my $prefix_max = 5;
my $margin = $ENV{UPDATE_COPYRIGHT_MAX_LINE_LENGTH};
!$margin || $margin =~ m/^\d+$/
and $margin = 72;

```

```

my $tab_width = 8;

```

```

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;
}

```

```

# Unless the file consistently uses "\r\n" as the EOL, use "\n" instead.
my $eol = /(?:^[^\r])\n/ ? "\n" : "\r\n";

```

```

my $leading;
my $prefix;
my $ws_re;
my $stmt_re;
while (/^(^\\n){0,$prefix_max}$copyright_re/g)
{
    $leading = "$1$2";
    $prefix = $2;
    if ($prefix =~ /^(\\s*\\)(\\s*)$/)
    {
        $prefix =~ s/,/, ,;
        my $prefix_ws = $prefix;
        $prefix_ws =~ s/^//; # Only whitespace.
        if (/^G(?:[\\^*\\n]|\\*[\\^\\n])?*?\\n$prefix_ws/)
        {
            $prefix = $prefix_ws;
        }
    }
    $ws_re = '[ \\t\\r\\f]'; # \\s without \\n
    $ws_re =
        "(?:$ws_re*(?:$ws_re\\|\\n" . quotemeta($prefix) . ")$ws_re*)";
    my $holder_re = $holder;
    $holder_re =~ s/^s/$ws_re/g;
    my $stmt_remainder_re =
        "(?:$ws_re$circle_c_re)?"
        . "$ws_re(?:(?:\\d\\d)?\\d\\d(?:,$ws_re?-))*"
        . "((?:\\d\\d)?\\d\\d)$ws_re$holder_re";
    if (/^G$stmt_remainder_re/)
    {
        $stmt_re =
            quotemeta($leading) . "($copyright_re$stmt_remainder_re)";
        last;
    }
}
if (defined $stmt_re)
{
    /$stmt_re/ or die; # Should never die.
    my $stmt = $1;
    my $final_year_orig = $2;

    # Handle two-digit year numbers like "98" and "99".
    my $final_year = $final_year_orig;
    $final_year <= 99
        and $final_year += 1900;

    if ($final_year != $this_year)
    {
        # Update the year.
    }
}

```

```

$stmt =~ s/$final_year_orig/$final_year, $this_year/;
}
if ($final_year != $this_year || $ENV{'UPDATE_COPYRIGHT_FORCE'})
{
# Normalize all whitespace including newline-prefix sequences.
$stmt =~ s/$ws_re/ /g;

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

# Convert 2-digit to 4-digit years.
$stmt =~ s/(\b\d\d\b)/19$1/g;

# Make the use of intervals consistent.
if (!$ENV{UPDATE_COPYRIGHT_USE_INTERVALS})
{
$stmt =~ s/(\d{4})-(\d{4})/join(', ', $1..$2)/eg;
}
else
{
$stmt =~
s/
(\d{4})
(?:
(\ |-)
((?){
if ($2 eq '-') { '\d{4}'; }
elsif (!$3) { $1 + 1; }
else { $3 + 1; }
}))
)+
/$1-$3/gx;

# When it's 2, emit a single range encompassing all year numbers.
$ENV{UPDATE_COPYRIGHT_USE_INTERVALS} == 2
and $stmt =~ s/(\b\d{4})\b.*\b(\d{4})\b/$1-$2/;
}

# Format within margin.
my $stmt_wrapped;
my $text_margin = $margin - length($prefix);
if ($prefix =~ /^(t+)/)
{
$text_margin -= length($1) * ($stab_width - 1);
}
while (length $stmt)
{
if (($stmt =~ s/^(.{1,$text_margin})(?: |$)//)

```

```

|| ($stmt =~ s/^(\[S]+\)(?: |$)/))
{
  my $line = $1;
  $stmt_wrapped .= $stmt_wrapped ? "$eol$prefix" : $leading;
  $stmt_wrapped .= $line;
}
else
{
  # Should be unreachable, but we don't want an infinite
  # loop if it can be reached.
  die;
}
}

# Replace the old copyright statement.
s/$stmt_re/$stmt_wrapped/;
}
}
else
{
  print STDERR "$ARGV: warning: copyright statement not found\n";
}

# Local variables:
# mode: perl
# indent-tabs-mode: nil
# eval: (add-hook 'write-file-hooks 'time-stamp)
# time-stamp-start: "my $VERSION = "
# time-stamp-format: "%:y-%02m-%02d.%02H:%02M"
# time-stamp-time-zone: "UTC"
# time-stamp-end: "; # UTC"
# End:

```

## 2.141 hd2u 1.0.3

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## 2.142 Heap 0.8

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Heap routines...

This is a collection of routines for managing a heap data structure.

There are two major components: a heap component, and an element component.

A heap package basically keeps a collection of elements and is able to return the smallest one.

The heap component interface is defined in `Heap(3)` and must be supported by all heap packages. Currently there are three heap components provided:

- `Heap::Fibonacci` (the preferred one)
- `Heap::Binomial`
- `Heap::Binary`

See the book "Algorithms" by Cormen, Leiserson, and Rivest for details of the three heap packages.

The element package wraps the data that is to be stored and retrieved on the heap. You can inherit from the `Heap::Elem` object to embed element capability into your own objects, or you can use the provided objects to embed your data into elements without having to specifically design your `dat` for that purpose. The `Heap::Elem(3)` module provides a detailed description of the requirements of an element module. (The main ones are that it must provide a `cmp` method so that the elements can be ordered, and it must provide a `heap` method that will either store or retrieve a scalar value so that the heap routines can map an element reference into its position within the heap.

Version 0.70 was used for the graph routines in the book "Mastering Algorithms with Perl", and there has been some feedback from users, which indicates that it is not too rough around the edges.

Comments to:

John Macdonald <[john@perlwolf.com](mailto:john@perlwolf.com)>

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```

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

## 2.143 HOP-Lexer 0.032

## 2.143.1 Available under license :

from /lib/HOP/Lexer.pm

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## 2.144 HOP-Stream 0.03

### 2.144.1 Available under license :

from /lib/HOP/Stream.pm

<snip>

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

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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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## 2.145 HTML-HTMLDoc 0.1

### 2.145.1 Available under license :

HTML/HTMLDoc version 0.01

=====

This module is an Perl OO-interface to the HTMLDOC commandline-tool available from <http://www.easysw.com/htmldoc>. It can be used for easily creating PDF and PS documents from HTML-Documents.

The module tries to be easy to use. It is possible to send the PDF-output directly to a browser in a web-environment or to save it to a file.

If you use this module in mod\_perl-environment, be careful because there are problems using IPC::Open3 with mod\_perl. See the pod for an other way of this

module to generate the PDF without using ICP::Open3.

Example of use:

```
use HTML::HTMLDoc();
my $htmldoc = new HTML::HTMLDoc();
$htmldoc->set_html_content($html);
my $pdf = $htmldoc->generate_pdf();

# output the generated pdf to a web-browser:
# send the correct header to the client
print "Content-type:application/pdf\n\n";
print $pdf->to_string();

# or save the pdf to file
$pdf->to_file('foo.pdf');
```

## LIMITATIONS

HTMLDOC CURRENTLY ONLY SUPPORTS HTML 3.2 AND DOES NOT SUPPORT STYLE SHEETS!

Please read the documentation of HTMLDOC

Currently this module has only be tested under Linux. Any Unix that is supported by HTMLDOC should be no problem.

Please let me know of problems.

## INSTALLATION

Install HTMLDOC first. See dependencies-section. If you want to use this on a webserver, you possibly want to disable the gui of HTMLDOC at configure.

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

## DEPENDENCIES

This module requires these other modules and libraries:

HTMLDOC programm available on <http://www.easysw.com/htmldoc>

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

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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.146 HTML-Parser 3.64

### 2.146.1 Available under license :

from META.yml

<snip>

license: perl

<snip>

from Parser.xs

/\*

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\*

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\*/

<snip>

from README

<snip>

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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```

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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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## 2.147 HTML-Tagset 3.20 :DUPLICATE

### 2.147.1 Available under license :

from README

```
<snip>
```

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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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This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program 'Gnomovision' (a program to direct compilers to make passes
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!

# 2.148 HTML-Template 2.9

## 2.148.1 Available under license :

from README

<snip>

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Copyright (C) 2000 Sam Tregar (sam@tregar.com)

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<signature of Ty Coon>, 1 April 1989  
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## 2.149 HTML-Tokenizer-Simple 3.15

### 2.149.1 Available under license :

```
---
name: HTML-Tokenizer-Simple
version: 3.15
author:
- Curtis "Ovid" Poe <ovid@cpan.org>
abstract: Easy to use C<HTML::Tokenizer> interface
license: perl
resources:
license: http://dev.perl.org/licenses/
requires:
HTML::Parser: 3.25
HTML::Tokenizer: 2.24
Sub::Override: 0
Test::More: 0
provides:
HTML::Tokenizer::Simple:
file: lib/HTML/Tokenizer/Simple.pm
version: 3.15
```

HTML::TokeParser::Simple::Token:  
file: lib/HTML/TokeParser/Simple/Token.pm  
version: 3.0  
HTML::TokeParser::Simple::Token::Comment:  
file: lib/HTML/TokeParser/Simple/Token/Comment.pm  
version: 1.0  
HTML::TokeParser::Simple::Token::Declaration:  
file: lib/HTML/TokeParser/Simple/Token/Declaration.pm  
version: 1.0  
HTML::TokeParser::Simple::Token::ProcessInstruction:  
file: lib/HTML/TokeParser/Simple/Token/ProcessInstruction.pm  
version: 2.0  
HTML::TokeParser::Simple::Token::Tag:  
file: lib/HTML/TokeParser/Simple/Token/Tag.pm  
version: 1.2  
HTML::TokeParser::Simple::Token::Tag::End:  
file: lib/HTML/TokeParser/Simple/Token/Tag/End.pm  
version: 1.0  
HTML::TokeParser::Simple::Token::Tag::Start:  
file: lib/HTML/TokeParser/Simple/Token/Tag/Start.pm  
version: 1.0  
HTML::TokeParser::Simple::Token::Text:  
file: lib/HTML/TokeParser/Simple/Token/Text.pm  
version: 1.0  
generated\_by: Module::Build version 0.2703  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.2.html>  
version: 1.2  
HTML/TokeParser/Simple version 1.2  
=====

HTML::TokeParser::Simple is a subclass of HTML::TokeParser that uses easy-to-remember method calls to work with the tokens. Rather than try to remember a bunch of array indices or try to write a bunch of constants for them, you can now do something like:

```
$token->is_start_tag( 'form' )
```

Instead of

```
$token->[0] eq 'S' and $token->[1] eq 'form'
```

## INSTALLATION

To install this module type the following:

```
perl Makefile.PL  
make
```

make test  
make install

## DEPENDENCIES

This module requires these other modules and libraries:

HTML::TokeParser 3.25

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A "png\_get\_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson

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September 12, 2004

/\* png.h - header file for PNG reference library

\*

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\* libpng versions 0.97, January 1998, through 1.2.7 - September 12, 2004: Glenn

\* See also "Contributing Authors", below.

\*

\* Note about libpng version numbers:

\*

\* Due to various miscommunications, unforeseen code incompatibilities

\* and occasional factors outside the authors' control, version numbering

\* on the library has not always been consistent and straightforward.

\* The following table summarizes matters since version 0.89c, which was

\* the first widely used release:

\*

\* source            png.h png.h shared-lib

\* version           string int version

```

* -----
* 0.89c "1.0 beta 3" 0.89 89 1.0.89
* 0.90 "1.0 beta 4" 0.90 90 0.90 [should have been 2.0.90]
* 0.95 "1.0 beta 5" 0.95 95 0.95 [should have been 2.0.95]
* 0.96 "1.0 beta 6" 0.96 96 0.96 [should have been 2.0.96]
* 0.97b "1.00.97 beta 7" 1.00.97 97 1.0.1 [should have been 2.0.97]
* 0.97c 0.97 97 2.0.97
* 0.98 0.98 98 2.0.98
* 0.99 0.99 98 2.0.99
* 0.99a-m 0.99 99 2.0.99
* 1.00 1.00 100 2.1.0 [100 should be 10000]
* 1.0.0 (from here on, the 100 2.1.0 [100 should be 10000]
* 1.0.1 png.h string is 10001 2.1.0
* 1.0.1a-e identical to the 10002 from here on, the shared library
* 1.0.2 source version) 10002 is 2.V where V is the source code
* 1.0.2a-b 10003 version, except as noted.
* 1.0.3 10003
* 1.0.3a-d 10004
* 1.0.4 10004
* 1.0.4a-f 10005
* 1.0.5 (+ 2 patches) 10005
* 1.0.5a-d 10006
* 1.0.5e-r 10100 (not source compatible)
* 1.0.5s-v 10006 (not binary compatible)
* 1.0.6 (+ 3 patches) 10006 (still binary incompatible)
* 1.0.6d-f 10007 (still binary incompatible)
* 1.0.6g 10007
* 1.0.6h 10007 10.6h (testing xy.z so-numbering)
* 1.0.6i 10007 10.6i
* 1.0.6j 10007 2.1.0.6j (incompatible with 1.0.0)
* 1.0.7beta11-14 DLLNUM 10007 2.1.0.7beta11-14 (binary compatible)
* 1.0.7beta15-18 1 10007 2.1.0.7beta15-18 (binary compatible)
* 1.0.7rc1-2 1 10007 2.1.0.7rc1-2 (binary compatible)
* 1.0.7 1 10007 (still compatible)
* 1.0.8beta1-4 1 10008 2.1.0.8beta1-4
* 1.0.8rc1 1 10008 2.1.0.8rc1
* 1.0.8 1 10008 2.1.0.8
* 1.0.9beta1-6 1 10009 2.1.0.9beta1-6
* 1.0.9rc1 1 10009 2.1.0.9rc1
* 1.0.9beta7-10 1 10009 2.1.0.9beta7-10
* 1.0.9rc2 1 10009 2.1.0.9rc2
* 1.0.9 1 10009 2.1.0.9
* 1.0.10beta1 1 10010 2.1.0.10beta1
* 1.0.10rc1 1 10010 2.1.0.10rc1
* 1.0.10 1 10010 2.1.0.10
* 1.0.11beta1-3 1 10011 2.1.0.11beta1-3
* 1.0.11rc1 1 10011 2.1.0.11rc1
* 1.0.11 1 10011 2.1.0.11

```

```

* 1.0.12beta1-2      2  10012 2.1.0.12beta1-2
* 1.0.12rc1         2  10012 2.1.0.12rc1
* 1.0.12            2  10012 2.1.0.12
* 1.1.0a-f          -  10100 2.1.1.0a-f (branch abandoned)
* 1.2.0beta1-2      2  10200 2.1.2.0beta1-2
* 1.2.0beta3-5      3  10200 3.1.2.0beta3-5
* 1.2.0rc1          3  10200 3.1.2.0rc1
* 1.2.0              3  10200 3.1.2.0
* 1.2.1beta1-4      3  10201 3.1.2.1beta1-4
* 1.2.1rc1-2        3  10201 3.1.2.1rc1-2
* 1.2.1              3  10201 3.1.2.1
* 1.2.2beta1-6      12 10202 12.so.0.1.2.2beta1-6
* 1.0.13beta1       10 10013 10.so.0.1.0.13beta1
* 1.0.13rc1         10 10013 10.so.0.1.0.13rc1
* 1.2.2rc1          12 10202 12.so.0.1.2.2rc1
* 1.0.13            10 10013 10.so.0.1.0.13
* 1.2.2              12 10202 12.so.0.1.2.2
* 1.2.3rc1-6        12 10203 12.so.0.1.2.3rc1-6
* 1.2.3              12 10203 12.so.0.1.2.3
* 1.2.4beta1-3      13 10204 12.so.0.1.2.4beta1-3
* 1.0.14rc1         13 10014 10.so.0.1.0.14rc1
* 1.2.4rc1          13 10204 12.so.0.1.2.4rc1
* 1.0.14            10 10014 10.so.0.1.0.14
* 1.2.4              13 10204 12.so.0.1.2.4
* 1.2.5beta1-2      13 10205 12.so.0.1.2.5beta1-2
* 1.0.15rc1-3       10 10015 10.so.0.1.0.15rc1-3
* 1.2.5rc1-3        13 10205 12.so.0.1.2.5rc1-3
* 1.0.15            10 10015 10.so.0.1.0.15
* 1.2.5              13 10205 12.so.0.1.2.5
* 1.2.6beta1-4      13 10206 12.so.0.1.2.6beta1-4
* 1.0.16            10 10016 10.so.0.1.0.16
* 1.2.6              13 10206 12.so.0.1.2.6
* 1.2.7beta1-2      13 10207 12.so.0.1.2.7beta1-2
* 1.0.17rc1         10 10017 12.so.0.1.0.17rc1
* 1.2.7rc1          13 10207 12.so.0.1.2.7rc1
* 1.0.17            10 10017 12.so.0.1.0.17
* 1.2.7              13 10207 12.so.0.1.2.7
*
* Henceforth the source version will match the shared-library major
* and minor numbers; the shared-library major version number will be
* used for changes in backward compatibility, as it is intended. The
* PNG_LIBPNG_VER macro, which is not used within libpng but is available
* for applications, is an unsigned integer of the form xyyzz corresponding
* to the source version x.y.z (leading zeros in y and z). Beta versions
* were given the previous public release number plus a letter, until
* version 1.0.6j; from then on they were given the upcoming public
* release number plus "betaNN" or "rcN".
*

```

\* Binary incompatibility exists only when applications make direct access  
\* to the info\_ptr or png\_ptr members through png.h, and the compiled  
\* application is loaded with a different version of the library.  
\*  
\* DLLNUM will change each time there are forward or backward changes  
\* in binary compatibility (e.g., when a new feature is added).  
\*  
\* See libpng.txt or libpng.3 for more information. The PNG specification  
\* is available as a W3C Recommendation and as an ISO Specification,  
\* <<http://www.w3.org/TR/2003/REC-PNG-20031110/>  
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```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*
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```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)  
Michael Campanella (campanella@stevms.enet.dec.com)

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## 2.153 ImageMagick 6.5.8-6

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## 2.157 IO-Socket-INET6 2.69

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---

abstract: 'Object interface for AF\_INET|AF\_INET6 domain sockets'

author:

- "This program is based on L<IO::Socket::INET> by Graham Barr<n<gbarr@pobox.com> and currently maintained by the Perl Porters."

- "Modified by Rafael Martinez Torres <rafael.martinez@novagnet.com> and\nEuro6IX project."

- "Modified further by Shlomi Fish <shlomif@iglu.org.il>, while disclaiming\nall copyrights."

build\_requires:

Test::More: 0

configure\_requires:

Module::Build: 0.36

dynamic\_config: 1

generated\_by: 'Module::Build version 0.38, CPAN::Meta::Converter version 2.112621'

keywords:

- inet6

- input

- internet

- ipv6

- network

- networking

- output

- socket

- sockets

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: IO-Socket-INET6  
provides:  
IO::Socket::INET6:  
  file: lib/IO/Socket/INET6.pm  
  version: 2.69  
requires:  
  Carp: 0  
  Errno: 0  
  Exporter: 0  
  IO::Socket: 0  
  Socket: 0  
  Socket6: 0.12  
strict: 0  
warnings: 0  
resources:  
  license: <http://dev.perl.org/licenses/>  
  repository: <https://bitbucket.org/shlomif/perl-io-socket-inet6>  
version: 2.69  
IO::Socket::INET6

### 1. Abstract

IO::Socket::INET6 provides an object interface to creating and using sockets in both AF\_INET|AF\_INET6 domain. It is built upon the IO::Socket interface and inherits all the methods defined by IO::Socket.

WARNING: You should use this module mainly to program IPv6 domain. Most probably future releases will not support AF\_INET | AF\_UNSPEC options, as the module seems to fail on some given corner cases. If you require IPv4, you are encouraged to use IO::Socket::INET from the application level. Be warned.

### 2. Install

```
% perl Makefile.PL  
% make  
% make test  
# make install
```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program 'Gnomovision' (a program to direct compilers to make passes
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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# 2.159 IO-Socket-SSL 1.81

## 2.159.1 Available under license :

from META.yml

<snip>

license: perl

<snip>

from /lib/IO/Socket/SSL.pm

<snip>

=head1 AUTHORS

Steffen Ullrich, <steffen at genua.de> is the current maintainer.

Peter Behroozi, <behrooz at fas.harvard.edu> (Note the lack of an "i" at the end of "behrooz")

Marko Asplund, <marko.asplund at kronodoc.fi>, was the original author of IO::Socket::SSL.

Patches incorporated from various people, see file Changes.

=head1 COPYRIGHT

Working support for non-blocking was added by Steffen Ullrich.

The rewrite of this module is Copyright (C) 2002-2005 Peter Behroozi.

The original versions of this module are Copyright (C) 1999-2002 Marko Asplund.

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<snip>

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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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at assemblers) written by James Hacker.
```

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

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## 2.160 IO-String 1.08

### 2.160.1 Available under license :

IO::String is an IO::File (and IO::Handle) compatible class that read  
or write data from in-core strings. It is really just a  
simplification of what I needed from Eryq's IO-stringy modules. As  
such IO::String is a replacement for IO::Scalar.

Installation as usual:

```
perl Makefile.PL
make
make test
make install
```

Documentation is embedded in the module.

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## 2.161 IO-Tty 1.08

### 2.161.1 Available under license :

<snip>

/\*

\* The following pty-allocation code was heavily inspired by its  
\* counterparts in openssh 3.0p1 and Xemacs 21.4.5 but is a complete  
\* rewrite by me, Roland Giersig <RGiersig@cpan.org>.

\*

\* Nevertheless my references to Tatu Ylonen <ylo@cs.hut.fi>  
\* and the Xemacs development team for their inspiring code.

\*

\* mysignal and strlcpy were borrowed from openssh and have their  
\* copyright messages attached.

\*/

<snip>

/\* from \$OpenBSD: misc.c,v 1.12 2001/06/26 17:27:24 markus Exp \$ \*/

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\*/

<snip>

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/*
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*/
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<snip>

<snip>

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Originally by Graham Barr E<lt>F<gbarr@pobox.com>E<gt>, based on the

Ptty module by Nick Ing-Simmons E<lt>F<nik@tiuk.ti.com>E<gt>.

Now maintained and heavily rewritten by Roland Giersig

E<lt>F<RGiersig@cpan.org>E<gt>.

Contains copyrighted stuff from openssh v3.0p1, authored by Tatu

Ylonen <ylo@cs.hut.fi>, Markus Friedl and Todd C. Miller

<Todd.Miller@courtesan.com>. I also got a lot of inspiry from the ptty

code in Xemacs.

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```
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```

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```
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```

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## 2.167 iputils s20101006

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```

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 \*/

```
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"@(#) Copyright (c) 1989 The Regents of the University of California.\n\
All rights reserved.\n";
#endif /* not lint */
```

```
/*
 * P I N G . C
 *
 * Using the InterNet Control Message Protocol (ICMP) "ECHO" facility,
 * measure round-trip-delays and packet loss across network paths.
 *
 * Author -
 * Mike Muuss
 * U. S. Army Ballistic Research Laboratory
 * December, 1983
 *
 * Status -
 * Public Domain. Distribution Unlimited.
 * Bugs -
 * More statistics could always be gathered.
```

```
* This program has to run SUID to ROOT to access the ICMP socket.
*/
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*/
```

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## 2.169 jansson 2.4

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# Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996

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```

# A lot of this script is taken from autoconf-2.10.

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
if test "${CDPATH+set}" = set; then CDPATH=; export CDPATH; fi

echo=echo
if test "X'($echo \t) 2>/dev/null" = 'X\t'; then :
else
# The Solaris and AIX default echo program unquotes backslashes.
# This makes it impossible to quote backslashes using
# echo "$something" | sed 's/\\/\\\\/g'
# So, we emulate echo with printf '%s\n'
echo="printf %s\n"
if test "X'($echo \t) 2>/dev/null" = 'X\t'; then :
else
# Oops. We have no working printf. Try to find a not-so-buggy echo.
echo=echo
IFS="${IFS= }"; save_ifs="$IFS"; IFS="{IFS}:"
for dir in $PATH /usr/ucb; do
if test -f $dir/echo && test "X'$dir/echo \t'" = 'X\t'; then
echo="$dir/echo"
break
fi
done
IFS="$save_ifs"
fi
fi

# Sed substitution that helps us do robust quoting. It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed='sed -e s/^X//'
sed_quote_subst='s/([\\`"\'$\\|])/\|/g'

# Same as above, but do not quote variable references.
double_quote_subst='s/([\\`"\'$\\|])/\|/g'

# The name of this program.
progname='$echo "X$0" | $Xsed -e 's%^.*%%'

# Constants:
PROGRAM=ltconfig
PACKAGE=libtool
VERSION=1.2
ac_compile='${CC-cc} -c $CFLAGS $CPPFLAGS conftest.c 1>&5'
ac_link='${CC-cc} -o conftest $CFLAGS $CPPFLAGS $LDFLAGS conftest.c $LIBS 1>&5'
rm="rm -f"

```

```

help="Try \'$progname --help\' for more information."

# Global variables:
can_build_shared=yes
enable_shared=yes
# All known linkers require a '.a' archive for static linking.
enable_static=yes
ltmain=
silent=
srcdir=
ac_config_guess=
ac_config_sub=
host=
nonopt=
verify_host=yes
with_gcc=no
with_gnu_ld=no

old_AR="$AR"
old_CC="$CC"
old_CFLAGS="$CFLAGS"
old_CPPFLAGS="$CPPFLAGS"
old_LD="$LD"
old_LN_S="$LN_S"
old_NM="$NM"
old_RANLIB="$RANLIB"

# Parse the command line options.
args=
prev=
for option
do
case "$option" in
-*=*) optarg='echo "$option" | sed 's/[-_a-zA-Z0-9]*=/' ;;
*) optarg= ;;
esac

# If the previous option needs an argument, assign it.
if test -n "$prev"; then
eval "$prev=\$option"
prev=
continue
fi

case "$option" in
--help) cat <<EOM
Usage: $progname [OPTION]... LTMAIN [HOST]

```

Generate a system-specific libtool script.

```
--disable-shared    do not build shared libraries
--disable-static    do not build static libraries
--help             display this help and exit
--no-verify        do not verify that HOST is a valid host type
--quiet           same as '--silent'
--silent          do not print informational messages
--srcdir=DIR       find 'config.guess' in DIR
--version          output version information and exit
--with-gcc         assume that the GNU C compiler will be used
--with-gnu-ld      assume that the C compiler uses the GNU linker
```

LTMAIN is the 'ltmain.sh' shell script fragment that provides basic libtool functionality.

HOST is the canonical host system name [default=guesSED].

EOM

```
exit 0
```

```
::
```

```
--disable-shared) enable_shared=no ;;
```

```
--disable-static) enable_static=no ;;
```

```
--quiet | --silent) silent=yes ;;
```

```
--srcdir) prev=srcdir ;;
```

```
--srcdir=*) srcdir="$optarg" ;;
```

```
--no-verify) verify_host=no ;;
```

```
--version) echo "$PROGRAM (GNU $PACKAGE) $VERSION"; exit 0 ;;
```

```
--with-gcc) with_gcc=yes ;;
```

```
--with-gnu-ld) with_gnu_ld=yes ;;
```

```
*)
```

```
  echo "$progname: unrecognized option '$option'" 1>&2
```

```
  echo "$help" 1>&2
```

```
  exit 1
```

```
::
```

```
*)
```

```
  if test -z "$ltmain"; then
```

```
    ltmain="$option"
```

```
  elif test -z "$host"; then
```

```
  # This generates an unnecessary warning for sparc-sun-solaris4.1.3_U1
```

```

# if test -n "echo $option| sed 's/[-a-z0-9.]/g'"; then
#   echo "$progname: warning '\$option' is not a valid host type" 1>&2
#   fi
#   host="$option"
# else
#   echo "$progname: too many arguments" 1>&2
#   echo "$help" 1>&2
#   exit 1
# fi ;;
esac
done

if test -z "$ltmain"; then
echo "$progname: you must specify a LTMAIN file" 1>&2
echo "$help" 1>&2
exit 1
fi

if test -f "$ltmain"; then :
else
echo "$progname: '\$ltmain' does not exist" 1>&2
echo "$help" 1>&2
exit 1
fi

# Quote any args containing shell metacharacters.
ltconfig_args=
for arg
do
case "$arg" in
*" "*" "*" "*" "[\[\]~\#\$\^\&*\(\)\{\}\|\|/;|<|>|?]*"
ltconfig_args="$ltconfig_args '$arg'" ;;
*) ltconfig_args="$ltconfig_args $arg" ;;
esac
done

# A relevant subset of AC_INIT.

# File descriptor usage:
# 0 standard input
# 1 file creation
# 2 errors and warnings
# 3 some systems may open it to /dev/tty
# 4 used on the Kubota Titan
# 5 compiler messages saved in config.log
# 6 checking for... messages and results
if test "$silent" = yes; then
exec 6>/dev/null

```

```

else
exec 6>&1
fi
exec 5>>./config.log

# NLS nuisances.
# Only set LANG and LC_ALL to C if already set.
# These must not be set unconditionally because not all systems understand
# e.g. LANG=C (notably SCO).
if test "${LC_ALL+set}" = set; then LC_ALL=C; export LC_ALL; fi
if test "${LANG+set}" = set; then LANG=C; export LANG; fi

if (echo "testing\c"; echo 1,2,3) | grep c >/dev/null; then
# Stardent Vistra SVR4 grep lacks -e, says ghazi@caip.rutgers.edu.
if (echo -n testing; echo 1,2,3) | sed s/-n/xn/ | grep xn >/dev/null; then
ac_n= ac_c='
' ac_t=' '
else
ac_n=-n ac_c= ac_t=
fi
else
ac_n= ac_c='\c' ac_t=
fi

if test -z "$srcdir"; then
# Assume the source directory is the same one as the path to ltmain.sh.
srcdir='`echo "$ltmain" | $Xsed -e 's%/[^\/*]%%`'
test "$srcdir" = "$ltmain" && srcdir=.
fi

trap "$rm conftest*; exit 1" 1 2 15
if test "$verify_host" = yes; then
# Check for config.guess and config.sub.
ac_aux_dir=
for ac_dir in $srcdir $srcdir/.. $srcdir/../../; do
if test -f $ac_dir/config.guess; then
ac_aux_dir=$ac_dir
break
fi
done
if test -z "$ac_aux_dir"; then
echo "$progname: cannot find config.guess in $srcdir $srcdir/.. $srcdir/../../" 1>&2
echo "$help" 1>&2
exit 1
fi
ac_config_guess=$ac_aux_dir/config.guess
ac_config_sub=$ac_aux_dir/config.sub

```

```

# Make sure we can run config.sub.
if $ac_config_sub sun4 >/dev/null 2>&1; then :
else
  echo "$progname: cannot run $ac_config_sub" 1>&2
  echo "$help" 1>&2
  exit 1
fi

echo $ac_n "checking host system type" ... $ac_c" 1>&6

host_alias=$host
case "$host_alias" in
  "")
    if host_alias='$ac_config_guess'; then :
    else
      echo "$progname: cannot guess host type; you must specify one" 1>&2
      echo "$help" 1>&2
      exit 1
    fi ;;
  esac
host='$ac_config_sub $host_alias'
echo "$ac_t$host" 1>&6

# Make sure the host verified.
test -z "$host" && exit 1

elif test -z "$host"; then
  echo "$progname: you must specify a host type if you use '--no-verify'" 1>&2
  echo "$help" 1>&2
  exit 1
else
  host_alias=$host
fi

# Transform linux* to *-*-linux-gnu*, to support old configure scripts.
case "$host_os" in
  linux-gnu*) ;;
  linux*) host='echo $host | sed 's/^\([^-]*\)-\([^-]*\)-\([^-]*\)$\1-gnu\2/'
  esac

host_cpu='echo $host | sed 's/^\([^-]*\)-\([^-]*\)-\([^-]*\)$\1/'
host_vendor='echo $host | sed 's/^\([^-]*\)-\([^-]*\)-\([^-]*\)$\2/'
host_os='echo $host | sed 's/^\([^-]*\)-\([^-]*\)-\([^-]*\)$\3/'

case "$host_os" in
  aix3*)
    # AIX sometimes has problems with the GCC collect2 program. For some
    # reason, if we set the COLLECT_NAMES environment variable, the problems

```

```

# vanish in a puff of smoke.
if test "${COLLECT_NAMES+set}" != set; then
    COLLECT_NAMES=
    export COLLECT_NAMES
fi
;;
esac

# Determine commands to create old-style static archives.
old_archive_cmds='$AR cru $oldlib$oldobjs'
old_postinstall_cmds='chmod 644 $oldlib'
old_postuninstall_cmds=

# Set a sane default for 'AR'.
test -z "$AR" && AR=ar

# If RANLIB is not set, then run the test.
if test "${RANLIB+set}" != "set"; then
    result=no

    echo $ac_n "checking for ranlib... $ac_c" 1>&6
    IFS="{IFS= }"; save_ifs="$IFS"; IFS="{IFS}:"
    for dir in $PATH; do
        test -z "$dir" && dir=.
        if test -f $dir/ranlib; then
            RANLIB="ranlib"
            result="ranlib"
            break
        fi
    done
    IFS="$save_ifs"

    echo "$ac_t$result" 1>&6
fi

if test -n "$RANLIB"; then
    old_archive_cmds="$old_archive_cmds;\$RANLIB \$oldlib"
    old_postinstall_cmds="\$RANLIB \$oldlib;$old_postinstall_cmds"
fi

# Check to see if we are using GCC.
if test "$with_gcc" != yes || test -z "$CC"; then
    # If CC is not set, then try to find GCC or a usable CC.
    if test -z "$CC"; then
        echo $ac_n "checking for gcc... $ac_c" 1>&6
        IFS="{IFS= }"; save_ifs="$IFS"; IFS="{IFS}:"
        for dir in $PATH; do
            IFS="$save_ifs"

```



```

    test -z "$dir" && dir=.
    if test -f $dir/gcc; then
CC="gcc"
break
    fi
done
IFS="$save_ifs"

if test -n "$CC"; then
    echo "$ac_t$CC" 1>&6
else
    echo "$ac_t"no 1>&6
fi
fi

# Not "gcc", so try "cc", rejecting "/usr/ucb/cc".
if test -z "$CC"; then
    echo $ac_n "checking for cc... $ac_c" 1>&6
    IFS="{IFS= }"; save_ifs="$IFS"; IFS="{IFS}:"
    cc_rejected=no
    for dir in $PATH; do
        test -z "$dir" && dir=.
        if test -f $dir/cc; then
if test "$dir/cc" = "/usr/ucb/cc"; then
    cc_rejected=yes
    continue
fi
CC="cc"
break
        fi
done
    IFS="$save_ifs"
    if test $cc_rejected = yes; then
        # We found a bogon in the path, so make sure we never use it.
        set dummy $CC
        shift
        if test $# -gt 0; then
# We chose a different compiler from the bogus one.
# However, it has the same name, so the bogon will be chosen
# first if we set CC to just the name; use the full file name.
        shift
        set dummy "$dir/cc" "$@"
        shift
        CC="$@"
        fi
    fi

    if test -n "$CC"; then

```

```

    echo "$ac_t$CC" 1>&6
else
    echo "$ac_t"no 1>&6
fi

if test -z "$CC"; then
    echo "$progname: error: no acceptable cc found in \$PATH" 1>&2
    exit 1
fi
fi

# Now see if the compiler is really GCC.
with_gcc=no
echo $ac_n "checking whether we are using GNU C... $ac_c" 1>&6
echo "$progname:424: checking whether we are using GNU C" >&5

$rm conftest.c
cat > conftest.c <<EOF
#ifdef __GNUC__
yes;
#endif
EOF
if { ac_try='${CC-cc} -E conftest.c'; { (eval echo $progname:432: \"\$ac_try\") 1>&5; (eval $ac_try) 2>&5; }; } |
egrep yes >/dev/null 2>&1; then
    with_gcc=yes
fi
$rm conftest.c
echo "$ac_t$with_gcc" 1>&6
fi

# Allow CC to be a program name with arguments.
set dummy $CC
compiler="$2"

echo $ac_n "checking for $compiler option to produce PIC... $ac_c" 1>&6
pic_flag=
special_shlib_compile_flags=
wl=
link_static_flag=
no_built_in_flag=

if test "$with_gcc" = yes; then
    wl='-Wl,'
    link_static_flag='-static'
    no_built_in_flag='-fno-builtin'

case "$host_os" in
aix3* | aix4* | irix5* | irix6* | osf3* | osf4*)

```

```

# PIC is the default for these OSes.
;;
os2*)
# We can build DLLs from non-PIC.
;;
amigaos*)
# FIXME: we need at least 68020 code to build shared libraries, but
# adding the '-m68020' flag to GCC prevents building anything better,
# like '-m68040'.
pic_flag='-m68020 -resident32 -malways-restore-a4'
;;
*)
pic_flag='-fPIC'
;;
esac
else
# PORTME Check for PIC flags for the system compiler.
case "$host_os" in
aix3* | aix4*)
# All AIX code is PIC.
link_static_flag='-bnso -bI:/lib/syscalls.exp'
;;

hpux9* | hpux10*)
# Is there a better link_static_flag that works with the bundled CC?
wl='-Wl,'
link_static_flag="${wl}-a ${wl}archive"
pic_flag='+Z'
;;

irix5* | irix6*)
wl='-Wl,'
link_static_flag='-non_shared'
# PIC (with -KPIC) is the default.
;;

os2*)
# We can build DLLs from non-PIC.
;;

osf3* | osf4*)
# All OSF/1 code is PIC.
wl='-Wl,'
link_static_flag='-non_shared'
;;

sco3.2v5*)
pic_flag='-Kpic'

```

```

link_static_flag='-dn'
special_shlib_compile_flags='-belf'
;;

solaris2*)
pic_flag='-KPIC'
link_static_flag='-Bstatic'
wl='-Wl,'
;;

sunos4*)
pic_flag='-PIC'
link_static_flag='-Bstatic'
wl='-Qoption ld '
;;

sysv4.2uw2*)
pic_flag='-KPIC'
link_static_flag='-Bstatic'
wl='-Wl,'
;;

uts4*)
pic_flag='-pic'
link_static_flag='-Bstatic'
;;

*)
can_build_shared=no
;;
esac
fi

if test -n "$pic_flag"; then
echo "$ac_t$pic_flag" 1>&6

# Check to make sure the pic_flag actually works.
echo $ac_n "checking if $compiler PIC flag $pic_flag works... $ac_c" 1>&6
$rm conftest*
echo > conftest.c
save_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS $pic_flag -DPIC"
echo "$progname:547: checking if $compiler PIC flag $pic_flag works" >&5
if { (eval echo $progname:548: \"$ac_compile\") 1>&5; (eval $ac_compile) 2>conftest.err; } && test -s conftest.o;
then
# Append any warnings to the config.log.
cat conftest.err 1>&5

```

```

# On HP-UX, both CC and GCC only warn that PIC is supported... then they
# create non-PIC objects. So, if there were any warnings, we assume that
# PIC is not supported.
if test -s conftest.err; then
    echo "$ac_t"no 1>&6
    can_build_shared=no
    pic_flag=
else
    echo "$ac_t"yes 1>&6
    pic_flag=" $pic_flag"
fi
else
    # Append any errors to the config.log.
    cat conftest.err 1>&5
    can_build_shared=no
    pic_flag=
    echo "$ac_t"no 1>&6
fi
CFLAGS="$save_CFLAGS"
$rm conftest*
else
    echo "$ac_t"none 1>&6
fi

# Check for any special shared library compilation flags.
if test -n "$special_shlib_compile_flags"; then
    echo "$progname: warning: '$CC' requires '$special_shlib_compile_flags' to build shared libraries" 1>&2
    if echo "$old_CC $old_CFLAGS " | egrep -e "[ ]$special_shlib_compile_flags[ ]" >/dev/null; then :
    else
        echo "$progname: add '$special_shlib_compile_flags' to the CC or CFLAGS env variable and reconfigure" 1>&2
        can_build_shared=no
    fi
fi

echo $ac_n "checking if $compiler static flag $link_static_flag works... $ac_c" 1>&6
$rm conftest*
echo 'main(){return(0);}' > conftest.c
save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $link_static_flag"
echo "$progname:591: checking if $compiler static flag $link_static_flag works" >&5
if { (eval echo $progname:592: \"$ac_link\") 1>&5; (eval $ac_link) 2>&5; } && test -s conftest; then
    echo "$ac_t$link_static_flag" 1>&6
else
    echo "$ac_t"none 1>&6
    link_static_flag=
fi
LDFLAGS="$save_LDFLAGS"
$rm conftest*

```

```

if test -z "$LN_S"; then
# Check to see if we can use ln -s, or we need hard links.
echo $ac_n "checking whether ln -s works... $ac_c" 1>&6
$rm conftestdata
if ln -s X conftestdata 2>/dev/null; then
  $rm conftestdata
  LN_S="ln -s"
else
  LN_S=ln
fi
if test "$LN_S" = "ln -s"; then
  echo "$ac_t"yes 1>&6
else
  echo "$ac_t"no 1>&6
fi
fi

# Make sure LD is an absolute path.
if test -z "$LD"; then
ac_prog=ld
if test "$with_gcc" = yes; then
  # Check if gcc -print-prog-name=ld gives a path.
  echo $ac_n "checking for ld used by GCC... $ac_c" 1>&6
  echo "$progname:624: checking for ld used by GCC" >&5
  ac_prog='(GCC -print-prog-name=ld) 2>&5'
  case "$ac_prog" in
  # Accept absolute paths.
  /* | [A-Za-z]:\|*)
    test -z "$LD" && LD="$ac_prog"
    ;;
  "")
    # If it fails, then pretend we are not using GCC.
    ac_prog=ld
    ;;
  *)
    # If it is relative, then search for the first ld in PATH.
    with_gnu_ld=unknown
    ;;
  esac
elif test "$with_gnu_ld" = yes; then
  echo $ac_n "checking for GNU ld... $ac_c" 1>&6
  echo "$progname:642: checking for GNU ld" >&5
else
  echo $ac_n "checking for non-GNU ld"... $ac_c" 1>&6
  echo "$progname:645: checking for non-GNU ld" >&5
fi

```

```

if test -z "$LD"; then
  IFS="{IFS= }"; ac_save_ifs="$IFS"; IFS="{IFS}:"
  for ac_dir in $PATH; do
    test -z "$ac_dir" && ac_dir=.
    if test -f "$ac_dir/$ac_prog"; then
LD="$ac_dir/$ac_prog"
# Check to see if the program is GNU ld. I'd rather use --version,
# but apparently some GNU ld's only accept -v.
# Break only if it was the GNU/non-GNU ld that we prefer.
if "$LD" -v 2>&1 </dev/null | egrep '(GNU|with BFD)' > /dev/null; then
  test "$with_gnu_ld" != no && break
else
  test "$with_gnu_ld" != yes && break
fi
    fi
  done
  IFS="$ac_save_ifs"
fi

if test -n "$LD"; then
  echo "$ac_t$LD" 1>&6
else
  echo "$ac_t"no 1>&6
fi

if test -z "$LD"; then
  echo "$progname: error: no acceptable ld found in \${PATH}" 1>&2
  exit 1
fi
fi

# Check to see if it really is or is not GNU ld.
echo $ac_n "checking if the linker ($LD) is GNU ld... $ac_c" 1>&6
# I'd rather use --version here, but apparently some GNU ld's only accept -v.
if $LD -v 2>&1 </dev/null | egrep '(GNU|with BFD)' 1>&5; then
  with_gnu_ld=yes
else
  with_gnu_ld=no
fi
echo "$ac_t$with_gnu_ld" 1>&6

# See if the linker supports building shared libraries.
echo $ac_n "checking whether the linker ($LD) supports shared libraries... $ac_c" 1>&6

allow_undefined_flag=
no_undefined_flag=
archive_cmds=
old_archive_from_new_cmds=

```

```

export_dynamic_flag_spec=
hardcode_libdir_flag_spec=
hardcode_libdir_separator=
hardcode_direct=no
hardcode_minus_L=no
hardcode_shlibpath_var=unsupported
runpath_var=

case "$host_os" in
amigaos* | sunos4*)
# On these operating systems, we should treat GNU ld like the system ld.
gnu_ld_acts_native=yes
;;
*)
gnu_ld_acts_native=no
;;
esac

ld_shlibs=yes
if test "$with_gnu_ld" = yes && test "$gnu_ld_acts_native" != yes; then

# See if GNU ld supports shared libraries.
if $LD --help 2>&1 | egrep ': supported targets:.* elf' > /dev/null; then
archive_cmds='$CC -shared ${wl}-soname $wl$soname -o $lib$libobjs'
runpath_var=LD_RUN_PATH
ld_shlibs=yes
else
ld_shlibs=no
fi

if test "$ld_shlibs" = yes; then
hardcode_libdir_flag_spec='${wl}--rpath ${wl}$libdir'
export_dynamic_flag_spec='${wl}--export-dynamic'
fi
else
# PORTME fill in a description of your system's linker (not GNU ld)
case "$host_os" in
aix3*)
allow_undefined_flag=unsupported
archive_cmds='$NM$libobjs | $global_symbol_pipe | sed `s/.*/\` > $lib.exp;$LD -o $objdir/$soname$libobjs -
bE:$lib.exp -T512 -H512 -bM:SRE;$AR cru $lib $objdir/$soname'
# Note: this linker hardcodes the directories in LIBPATH if there
# are no directories specified by -L.
hardcode_minus_L=yes
if test "$with_gcc" = yes && test -z "$link_static_flag"; then
# Neither direct hardcoding nor static linking is supported with a
# broken collect2.
hardcode_direct=unsupported

```



```

fi
;;

aix4*)
    allow_undefined_flag=unsupported
    archive_cmds='$NM$libobjs | $global_symbol_pipe | sed "/s/* //" > $lib.exp;$CC -o $objdir/$soname$libobjs
${wl}-bE:$lib.exp ${wl}-bM:SRE ${wl}-bnoentry;$AR cru $lib $objdir/$soname'
    hardcode_direct=yes
    hardcode_minus_L=yes
    ;;

amigaos*)
    archive_cmds='$rm $objdir/a2ixlibrary.data;$echo "#define NAME $libname" > $objdir/a2ixlibrary.data;$echo
"#define LIBRARY_ID 1" >> $objdir/a2ixlibrary.data;$echo "#define VERSION $major" >>
$objdir/a2ixlibrary.data;$echo "#define REVISION $revision" >> $objdir/a2ixlibrary.data;$AR cru
$lib$libobjs;$RANLIB $lib;(cd $objdir && a2ixlibrary -32)'
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_minus_L=yes
    ;;

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++ constructor
# support. Future versions do this automatically, but an explicit c++rt0.o
# does not break anything, and helps significantly (at the cost of a little
# extra space).
freebsd2.2*)
    archive_cmds='$LD -Bshareable -o $lib$libobjs /usr/lib/c++rt0.o'
    hardcode_libdir_flag_spec='-R$libdir'
    hardcode_direct=yes
    hardcode_minus_L=yes
    hardcode_shlibpath_var=no
    ;;

# Unfortunately, older versions of FreeBSD 2 do not have this feature.
freebsd2*)
    archive_cmds='$LD -Bshareable -o $lib$libobjs'
    hardcode_direct=yes
    hardcode_minus_L=yes
    hardcode_shlibpath_var=no
    ;;

# FreeBSD 3, at last, uses gcc -shared to do shared libraries.
freebsd3*)
    archive_cmds='$CC -shared -o $lib$libobjs'
    hardcode_libdir_flag_spec='-R$libdir'
    hardcode_direct=yes
    hardcode_minus_L=yes
    hardcode_shlibpath_var=no
    ;;

```

```

hpux9*)
    archive_cmds='$rm $objdir/$soname;$LD -b +s +b $install_libdir -o $objdir/$soname$libobjs;mv
$objdir/$soname $lib'
    hardcode_libdir_flag_spec='${wl}+b ${wl}$libdir'
    hardcode_direct=yes
    hardcode_minus_L=yes
    export_dynamic_flag_spec='${wl}-E'
    ;;

hpux10*)
    archive_cmds='$LD -b +h $soname +s +b $install_libdir -o $lib$libobjs'
    hardcode_libdir_flag_spec='${wl}+b ${wl}$libdir'
    hardcode_direct=yes
    hardcode_minus_L=yes
    export_dynamic_flag_spec='${wl}-E'
    ;;

irix5* | irix6*)
    archive_cmds='$LD -shared -o $lib -soname $soname -set_version $verstring$libobjs'
    hardcode_libdir_flag_spec='${wl}-rpath ${wl}$libdir'
    ;;

netbsd*)
    # Tested with NetBSD 1.2 ld
    archive_cmds='$LD -Bshareable -o $lib$libobjs'
    hardcode_libdir_flag_spec='-R$libdir'
    hardcode_direct=yes
    hardcode_shlibpath_var=no
    ;;

openbsd*)
    archive_cmds='$LD -Bshareable -o $lib$libobjs'
    hardcode_libdir_flag_spec='-R$libdir'
    hardcode_direct=yes
    hardcode_shlibpath_var=no
    ;;

os2*)
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_minus_L=yes
    allow_undefined_flag=unsupported
    archive_cmds='$echo "LIBRARY $libname INITINSTANCE" > $objdir/$libname.def;$echo "DESCRIPTION
\"$libname\"" >> $objdir/$libname.def;$echo DATA >> $objdir/$libname.def;$echo " SINGLE NONSHARED" >>
$objdir/$libname.def;$echo EXPORTS >> $objdir/$libname.def;emxexp$libobjs >> $objdir/$libname.def;$CC -
Zdll -Zcrtdll -o $lib$libobjs $objdir/$libname.def'
    old_archive_from_new_cmds='emximp -o $objdir/$libname.a $objdir/$libname.def'
    ;;

```

```

osf3* | osf4*)
    allow_undefined_flag=' -expect_unresolved \*'
    archive_cmds='$LD -shared${allow_undefined_flag} -o $lib -soname $soname -set_version
$verstring$libobjs$deplibs'
    hardcode_libdir_flag_spec='${wl}-rpath ${wl}$libdir'
    hardcode_libdir_separator=:
    ;;

sco3.2v5*)
    archive_cmds='$LD -G -o $lib$libobjs'
    hardcode_direct=yes
    ;;

solaris2*)
    no_undefined_flag=' -z text'
    archive_cmds='$LD -G${allow_undefined_flag} -h $soname -o $lib$libobjs'
    hardcode_libdir_flag_spec='-R$libdir'
    hardcode_shlibpath_var=no

# Solaris 2 before 2.5 hardcodes -L paths.
case "$host_os" in
solaris2.[0-4]*)
    hardcode_minus_L=yes
    ;;
esac
;;

sunos4*)
    if test "$with_gcc" = yes; then
        archive_cmds='$CC -shared -o $lib$libobjs'
    else
        archive_cmds='$LD -assert pure-text -Bstatic -o $lib$libobjs'
    fi

    if test "$with_gnu_ld" = yes; then
        export_dynamic_flag_spec='${wl}-export-dynamic'
    fi
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_direct=yes
    hardcode_minus_L=yes
    hardcode_shlibpath_var=no
    ;;

uts4*)
    archive_cmds='$LD -G -h $soname -o $lib$libobjs'
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_direct=no

```

```

hardcode_minus_L=no
hardcode_shlibpath_var=no
;;

*)
ld_shlibs=no
can_build_shared=no
;;
esac
fi
echo "$ac_t$ld_shlibs" 1>&6

if test -z "$NM"; then
echo $ac_n "checking for BSD-compatible nm... $ac_c" 1>&6
case "$NM" in
/* | [A-Za-z]:\*) ;; # Let the user override the test with a path.
*)
IFS="{IFS= }"; ac_save_ifs="$IFS"; IFS="{IFS}:"
for ac_dir in /usr/ucb /usr/ccs/bin $PATH /bin; do
test -z "$ac_dir" && ac_dir=.
if test -f $ac_dir/nm; then
# Check to see if the nm accepts a BSD-compat flag.
# Adding the 'sed 1q' prevents false positives on HP-UX, which says:
# nm: unknown option "B" ignored
if ($ac_dir/nm -B /dev/null 2>&1 | sed '1q'; exit 0) | egrep /dev/null >/dev/null; then
NM="$ac_dir/nm -B"
elif ($ac_dir/nm -p /dev/null 2>&1 | sed '1q'; exit 0) | egrep /dev/null >/dev/null; then
NM="$ac_dir/nm -p"
else
NM="$ac_dir/nm"
fi
break
fi
done
IFS="$ac_save_ifs"
test -z "$NM" && NM=nm
;;
esac
echo "$ac_t$NM" 1>&6
fi

# Check for command to grab the raw symbol name followed by C symbol from nm.
echo $ac_n "checking command to parse $NM output... $ac_c" 1>&6

# These are sane defaults that work on at least a few old systems.
# [They come from Ultrix. What could be older than Ultrix?!! ;)]

# Character class describing NM global symbol codes.

```

```

symcode='[BCDEGRSTU]'

# Regexp to match symbols that can be accessed directly from C.
sympat='\([\_A-Za-z]\[_A-Za-z0-9]*\)'

# Transform the above into a raw symbol and a C symbol.
symxfrm='\1 \1'

# Define system-specific variables.
case "$host_os" in
aix*)
symcode='[BCDTU]'
;;
irix*)
# Cannot use undefined symbols on IRIX because inlined functions mess us up.
symcode='[BCDEGRST]'
;;
solaris2*)
symcode='[BDTU]'
;;
esac

# If we're using GNU nm, then use its standard symbol codes.
if $NM -V 2>&1 | egrep '(GNU|with BFD)' > /dev/null; then
symcode='[ABCDGISTUW]'
fi

# Write the raw and C identifiers.
global_symbol_pipe="sed -n -e 's/^. *$symcode $sympat/$symxfrm/p'"

# Check to see that the pipe works correctly.
pipe_works=no
$rm conftest*
cat > conftest.c <<EOF
#ifdef __cplusplus
extern "C" {
#endif
char nm_test_var;
void nm_test_func(){
#ifdef __cplusplus
}
#endif
main(){nm_test_var='a';nm_test_func();return(0);}
EOF

echo "$progname:971: checking if global_symbol_pipe works" >&5
if { (eval echo $progname:972: \"\$ac_compile\") 1>&5; (eval $ac_compile) 2>&5; } && test -s conftest.o; then
# Now try to grab the symbols.

```

```

nlist=conftest.nm
if { echo "$progname:975: eval \"\$NM conftest.o | \$global_symbol_pipe > $nlist\" >&5; eval \"\$NM conftest.o |
\$global_symbol_pipe > $nlist 2>&5\"; } && test -s \"$nlist\"; then

# Try sorting and uniquifying the output.
if sort \"$nlist\" | uniq > \"$nlist.T\"; then
    mv -f \"$nlist.T\" \"$nlist\"
    wcout='wc \"$nlist\" 2>/dev/null'
    count='$(echo "X$wcout" | $Xsed -e 's/^[ ]*([0-9][0-9]*)\.*$\1/'
    (test "$count" -ge 0) 2>/dev/null || count=-1
else
    rm -f \"$nlist.T\"
    count=-1
fi

# Make sure that we snagged all the symbols we need.
if egrep ' nm_test_var$' \"$nlist\" >/dev/null; then
    if egrep ' nm_test_func$' \"$nlist\" >/dev/null; then
cat <<EOF > conftest.c
#ifdef __cplusplus
extern "C" {
#endif

EOF
        # Now generate the symbol file.
        sed 's/^\(.*\)$/extern char \1;/' < "$nlist" >> conftest.c

cat <<EOF >> conftest.c
#ifdef __STDC__ && __STDC__
# define __ptr_t void *
#else
# define __ptr_t char *
#endif

/* The number of symbols in dld_preloaded_symbols, -1 if unsorted. */
int dld_preloaded_symbol_count = $count;

/* The mapping between symbol names and symbols. */
struct {
    char *name;
    __ptr_t address;
}
dld_preloaded_symbols[] =
{
EOF
    sed 's/^\(.*\) \(.*\)$/ {"\1", (__ptr_t) \&\2},/' < "$nlist" >> conftest.c
    cat <<EOF >> conftest.c
    {0, (__ptr_t) 0}

```

```

};

#ifdef __cplusplus
}
#endif
EOF
    # Now try linking the two files.
    mv conftest.o conftestm.o
save_LIBS="$LIBS"
save_CFLAGS="$CFLAGS"
    LIBS='conftestm.o'
CFLAGS="$CFLAGS$no_builtin_flag"
    if { (eval echo $progname:1033: \"\$ac_link\") 1>&5; (eval $ac_link) 2>&5; } && test -s conftest; then
        pipe_works=yes
    else
        echo "$progname: failed program was:" >&5
        cat conftest.c >&5
    fi
    LIBS="$save_LIBS"
    else
        echo "cannot find nm_test_func in $nlist" >&5
    fi
    else
        echo "cannot find nm_test_var in $nlist" >&5
    fi
    else
        echo "cannot run $global_symbol_pipe" >&5
    fi
    else
        echo "$progname: failed program was:" >&5
        cat conftest.c >&5
    fi
$rm conftest*

# Do not use the global_symbol_pipe unless it works.
echo "$ac_t$pipe_works" 1>&6
test "$pipe_works" = yes || global_symbol_pipe=

# Check hardcoding attributes.
echo $ac_n "checking how to hardcode library paths into programs... $ac_c" 1>&6
hardcode_action=
if test -n "$hardcode_libdir_flag_spec" || \
    test -n "$runpath_var"; then

# We can hardcode non-existent directories.
if test "$hardcode_direct" != no && \
    test "$hardcode_minus_L" != no && \
    test "$hardcode_shlibpath_var" != no; then

```

```

# Linking always hardcodes the temporary library directory.
hardcode_action=relink
else
# We can link without hardcoding, and we can hardcode nonexisting dirs.
hardcode_action=immediate
fi
elif test "$hardcode_direct" != yes && \
test "$hardcode_minus_L" != yes && \
test "$hardcode_shlibpath_var" != yes; then
# We cannot hardcode anything.
hardcode_action=unsupported
else
# We can only hardcode existing directories.
hardcode_action=relink
fi
echo "$ac_t$hardcode_action" 1>&6
test "$hardcode_action" = unsupported && can_build_shared=no

reload_flag=
reload_cmds='$LD$reload_flag -o $output$reload_objs'
echo $ac_n "checking for $LD option to reload object files... $ac_c" 1>&6
# PORTME Some linker may need a different reload flag.
reload_flag='-r'
echo "$ac_t$reload_flag"
test -n "$reload_flag" && reload_flag="$reload_flag"

# PORTME Fill in your ld.so characteristics
library_names_spec=
libname_spec='lib$name'
soname_spec=
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
version_type=none
dynamic_linker="$host_os ld.so"

echo $ac_n "checking dynamic linker characteristics... $ac_c" 1>&6
case "$host_os" in
aix3* | aix4*)
version_type=linux
library_names_spec='${libname}${release}.so.$versuffix $libname.a'
shlibpath_var=LIBPATH

# AIX has no versioning support, so we append a major version to the name.

```



```

soname_spec='${libname}${release}.so.$major'
;;

amigaos*)
library_names_spec='${libname}.ixlibrary $libname.a'
# Create ${libname}_ixlibrary.a entries in /sys/libs.
finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do libname=`echo "X$lib" | $Xsed -e
"\s%^\.*^\([^/]*\)\.ixlibrary%\1%"`; test $rm /sys/libs/${libname}_ixlibrary.a; $show "(cd /sys/libs && $LN_S
$lib ${libname}_ixlibrary.a)"; (cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a) || exit 1; done'
;;

frebsd2* | frebsd3*)
version_type=sunos
library_names_spec='${libname}${release}.so.$versuffix $libname.so'
finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
shlibpath_var=LD_LIBRARY_PATH
;;

gnu*)
version_type=sunos
library_names_spec='${libname}${release}.so.$versuffix'
shlibpath_var=LD_LIBRARY_PATH
;;

hpux9* | hpux10*)
# Give a soname corresponding to the major version so that dld.sl refuses to
# link against other versions.
dynamic_linker="$host_os dld.sl"
version_type=sunos
shlibpath_var=SHLIB_PATH
library_names_spec='${libname}${release}.sl.$versuffix ${libname}${release}.sl.$major $libname.sl'
soname_spec='${libname}${release}.sl.$major'
# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'
;;

irix5* | irix6*)
version_type=osf
soname_spec='${libname}${release}.so'
library_names_spec='${libname}${release}.so.$versuffix $libname.so'
shlibpath_var=LD_LIBRARY_PATH
;;

# No shared lib support for Linux oldld, aout, or coff.
linux-gnuoldld* | linux-gnuaout* | linux-gnucoff*)
dynamic_linker=no
;;

```

```

# This must be Linux ELF.
linux-gnu*)
    version_type=linux
    library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
    soname_spec='${libname}${release}.so.$major'
    finish_cmds='PATH="$PATH:/sbin" ldconfig -n $libdir'
    shlibpath_var=LD_LIBRARY_PATH

if test -f /lib/ld.so.1; then
    dynamic_linker='GNU ld.so'
else
    # Only the GNU ld.so supports shared libraries on MkLinux.
    case "$host_cpu" in
        powerpc*) dynamic_linker=no ;;
        *) dynamic_linker='Linux ld.so' ;;
    esac
fi
;;

netbsd* | openbsd*)
    version_type=sunos
    library_names_spec='${libname}${release}.so.$versuffix'
    finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
    shlibpath_var=LD_LIBRARY_PATH
;;

os2*)
    libname_spec='$name'
    library_names_spec='$libname.dll $libname.a'
    dynamic_linker='OS/2 ld.exe'
    shlibpath_var=LIBPATH
;;

osf3* | osf4*)
    version_type=osf
    soname_spec='${libname}${release}.so'
    library_names_spec='${libname}${release}.so.$versuffix $libname.so'
    shlibpath_var=LD_LIBRARY_PATH
;;

sco3.2v5*)
    version_type=osf
    soname_spec='${libname}${release}.so.$major'
    library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
    shlibpath_var=LD_LIBRARY_PATH
;;

solaris2*)

```

```

version_type=linux
library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
soname_spec='${libname}${release}.so.$major'
shlibpath_var=LD_LIBRARY_PATH
;;

sunos4*)
version_type=sunos
library_names_spec='${libname}${release}.so.$versuffix'
finish_cmds='PATH="$PATH:/usr/etc" ldconfig $libdir'
shlibpath_var=LD_LIBRARY_PATH
;;

sysv4.2uw2*)
version_type=linux
library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
soname_spec='${libname}${release}.so.$major'
shlibpath_var=LD_LIBRARY_PATH
;;

uts4*)
version_type=linux
library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
soname_spec='${libname}${release}.so.$major'
shlibpath_var=LD_LIBRARY_PATH
;;

*)
dynamic_linker=no
;;
esac
echo "$ac_t$dynamic_linker"
test "$dynamic_linker" = no && can_build_shared=no

# Report the final consequences.
echo "checking if libtool supports shared libraries... $can_build_shared" 1>&6

echo $ac_n "checking whether to build shared libraries... $ac_c" 1>&6
test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case "$host_os" in
aix*)
test "$enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
archive_cmds="$sarchive_cmds;\$RANLIB \$lib"
postinstall_cmds='$RANLIB $lib'

```

```

fi
;;
esac

echo "$ac_t$enable_shared" 1>&6

# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes

echo "checking whether to build static libraries... $enable_static" 1>&6

echo $ac_n "checking for objdir... $ac_c" 1>&6
rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
if test -d .libs; then
  objdir=.libs
else
  # MS-DOS does not allow filenames that begin with a dot.
  objdir=_libs
fi
rmdir .libs 2>/dev/null
echo "$ac_t$objdir" 1>&6

# Copy echo and quote the copy, instead of the original, because it is
# used later.
ltecho="$echo"

# Now quote all the things that may contain metacharacters.
for var in ltecho old_CC old_CFLAGS old_CPPFLAGS old_LD old_NM old_RANLIB \
old_LN_S AR CC LD LN_S NM reload_flag reload_cmds wl pic_flag \
link_static_flag no_builtin_flag export_dynamic_flag_spec \
libname_spec library_names_spec soname_spec RANLIB \
old_archive_cmds old_archive_from_new_cmds old_postinstall_cmds \
old_postuninstall_cmds archive_cmds postinstall_cmds postuninstall_cmds \
allow_undefined_flag no_undefined_flag \
finish_cmds finish_eval global_symbol_pipe \
hardcode_libdir_flag_spec hardcode_libdir_separator; do

case "$var" in
reload_cmds | old_archive_cmds | old_archive_from_new_cmds | \
old_postinstall_cmds | old_postuninstall_cmds | archive_cmds | \
postinstall_cmds | postuninstall_cmds | finish_cmds)
  # Double-quote double-evaluated strings.
  eval "$var=\\$echo \"X\${$var}\" | \\$Xsed -e \"\${double_quote_subst}\" -e \"\${sed_quote_subst}\"\"
  ;;
*)
  eval "$var=\\$echo \"X\${$var}\" | \\$Xsed -e \"\${sed_quote_subst}\"\"
  ;;

```

```

esac
done

ofile=libtool
trap "$rm $ofile; exit 1" 1 2 15
echo creating $ofile
$rm $ofile
cat <<EOF > $ofile
#!/bin/sh

# libtool - Provide generalized library-building support services.
# Generated automatically by $PROGRAM - GNU $PACKAGE $VERSION
# NOTE: Changes made to this file will be lost: look at ltconfig or ltmain.sh.
#
# Copyright (C) 1996-1998 Free Software Foundation, Inc.
# Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
# 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 2 of the License, or
# (at your option) any later version.
#
# This program 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 this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# This program was configured as follows,
# on host `(hostname || uname -n) 2>/dev/null | sed 1q`:
#
# CC="$old_CC" CFLAGS="$old_CFLAGS" CPPFLAGS="$old_CPPFLAGS" \
# LD="$old_LD" NM="$old_NM" RANLIB="$old_RANLIB" LN_S="$old_LN_S" \
# $0$ltconfig_args
#
# Compiler and other test output produced by $progname, useful for
# debugging $progname, is in ./config.log if it exists.

# Sed that helps us avoid accidentally triggering echo(1) options like -n.
Xsed="sed -e s/^X/"

```

```
# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
if test "\${CDPATH+set}" = set; then CDPATH=; export CDPATH; fi

# An echo program that does not interpret backslashes.
echo="$ltecho"

# The version of $programe that generated this script.
LTCONFIG_VERSION="$VERSION"

# Shell to use when invoking shell scripts.
SHELL=${CONFIG_SHELL-/bin/sh}

# Whether or not to build libtool libraries.
build_libtool_libs=$enable_shared

# Whether or not to build old-style libraries.
build_old_libs=$enable_static

# The host system.
host_alias="$host_alias"
host="$host"

# The archiver.
AR="$AR"

# The default C compiler.
CC="$CC"

# The linker used to build libraries.
LD="$LD"

# Whether we need hard or soft links.
LN_S="$LN_S"

# A BSD-compatible nm program.
NM="$NM"

# The name of the directory that contains temporary libtool files.
objdir="$objdir"

# How to create reloadable object files.
reload_flag="$reload_flag"
reload_cmds="$reload_cmds"

# How to pass a linker flag through the compiler.
wl="$wl"
```

```
# Additional compiler flags for building library objects.
pic_flag="$pic_flag"

# Compiler flag to prevent dynamic linking.
link_static_flag="$link_static_flag"

# Compiler flag to turn off builtin functions.
no_builtin_flag="$no_builtin_flag"

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec="$export_dynamic_flag_spec"

# Library versioning type.
version_type=$version_type

# Format of library name prefix.
libname_spec="$libname_spec"

# List of archive names. First name is the real one, the rest are links.
# The last name is the one that the linker finds with -INAME.
library_names_spec="$library_names_spec"

# The coded name of the library, if different from the real name.
soname_spec="$soname_spec"

# Commands used to build and install an old-style archive.
RANLIB="$RANLIB"
old_archive_cmds="$old_archive_cmds"
old_postinstall_cmds="$old_postinstall_cmds"
old_postuninstall_cmds="$old_postuninstall_cmds"

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds="$old_archive_from_new_cmds"

# Commands used to build and install a shared archive.
archive_cmds="$archive_cmds"
postinstall_cmds="$postinstall_cmds"
postuninstall_cmds="$postuninstall_cmds"

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag="$allow_undefined_flag"

# Flag that forces no undefined symbols.
no_undefined_flag="$no_undefined_flag"

# Commands used to finish a libtool library installation in a directory.
finish_cmds="$finish_cmds"
```

```

# Same as above, but a single script fragment to be eval'd but not shown.
finish_eval="$finish_eval"

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe="$global_symbol_pipe"

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# How to hardcode a shared library path into an executable.
hardcode_action=$hardcode_action

# Flag to hardcode \${libdir} into a binary during linking.
# This must work even if \${libdir} does not exist.
hardcode_libdir_flag_spec="$hardcode_libdir_flag_spec"

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator="$hardcode_libdir_separator"

# Set to yes if using DIR/libNAME.so during linking hardcodes DIR into the
# resulting binary.
hardcode_direct=$hardcode_direct

# Set to yes if using the -LDIR flag during linking hardcodes DIR into the
# resulting binary.
hardcode_minus_L=$hardcode_minus_L

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$hardcode_shlibpath_var

EOF

case "$host_os" in
aix3*)
cat <<\EOF >> $ofile
# AIX sometimes has problems with the GCC collect2 program. For some
# reason, if we set the COLLECT_NAMES environment variable, the problems
# vanish in a puff of smoke.
if test "${COLLECT_NAMES+set}" != set; then
COLLECT_NAMES=
export COLLECT_NAMES
fi

```



```

EOF
;;
esac

# Append the ltmain.sh script.
cat "$ltmain" >> $ofile || (rm -f $ofile; exit 1)

chmod +x $ofile
exit 0

# Local Variables:
# mode:shell-script
# sh-indentation:2
# End:
Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

```

## 2.172 JSON 2.16

### 2.172.1 Available under license :

```

--- #YAML:1.0
name:      JSON
version:   2.16
abstract:  JSON (JavaScript Object Notation) encoder/decoder
author:
  - Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>
license:   perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  Test::More: 0
no_index:
  directory:
    - t
    - inc
generated_by: ExtUtils::MakeMaker version 6.48
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4
JSON version 2.16
=====

```

#### INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

## NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

## SYNOPSIS

```
use JSON; # imports encode_json, decode_json, to_json and from_json.
```

```
$json_text = to_json($perl_scalar);
$perl_scalar = from_json($json_text);
```

```
# option-acceptable
$json_text = to_json($perl_scalar, {ascii => 1});
$perl_scalar = from_json($json_text, {utf8 => 1});
```

```
# OOP
$json = new JSON;
```

```
$json_text = $json->encode($perl_scalar);
$perl_scalar = $json->decode($json_text);
```

```
# pretty-printing
$json_text = $json->pretty->encode($perl_scalar);
```

```
# simple interface
$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;
```

```
# If you want to use PP only support features, call with '-support_by_pp'
# When XS unsupported feature is enable, using PP de/encode.
```

```
use JSON -support_by_pp;
```

## VERSION

2.16

This version is compatible with JSON::XS 2.26 and later.

## DESCRIPTION

\*\*\*\*\* CAUTION \*\*\*\*\*

\* This is 'JSON module version 2' and there are many differences \*

\* to version 1.xx \*

\* Please check your applications using old version. \*

\* See to 'INCOMPATIBLE CHANGES TO OLD VERSION' \*

\*\*\*\*\*

JSON (JavaScript Object Notation) is a simple data format. See to  
<<http://www.json.org/>> and  
"RFC4627"(<<http://www.ietf.org/rfc/rfc4627.txt>>).

This module converts Perl data structures to JSON and vice versa using  
either JSON::XS or JSON::PP.

JSON::XS is the fastest and most proper JSON module on CPAN which must  
be compiled and installed in your environment. JSON::PP is a pure-Perl  
module which is bundled in this distribution and has a strong  
compatibility to JSON::XS.

This module try to use JSON::XS by default and fail to it, use JSON::PP  
instead. So its features completely depend on JSON::XS or JSON::PP.

See to "BACKEND MODULE DECISION".

To distinguish the module name 'JSON' and the format type JSON, the  
former is quoted by C<> (its results vary with your using media), and  
the latter is left just as it is.

Module name : "JSON"

Format type : JSON

## FEATURES

\* correct unicode handling

This module (i.e. backend modules) knows how to handle Unicode,  
documents how and when it does so, and even documents what "correct"  
means.

Even though there are limitations, this feature is available since  
Perl version 5.6.

JSON::XS requires Perl 5.8.2 (but works correctly in 5.8.8 or  
later), so in older versions "JSON" should call JSON::PP as the  
backend which can be used since Perl 5.005.

With Perl 5.8.x JSON::PP works, but from 5.8.0 to 5.8.2, because of  
a Perl side problem, JSON::PP works slower in the versions. And in  
5.005, the Unicode handling is not available. See to "UNICODE  
HANDLING ON PERLS" in JSON::PP for more information.

See also to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS and  
"ENCODING/CODESET\_FLAG\_NOTES" in JSON::XS.

\* round-trip integrity

When you serialise a perl data structure using only data types supported by JSON, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There minor *are* exceptions to this, read the MAPPING section below to learn about those.

\* strict checking of JSON correctness

There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter is a security feature).

See to "FEATURES" in JSON::XS and "FEATURES" in JSON::PP.

\* fast

This module returns a JSON::XS object itself if available. Compared to other JSON modules and other serialisers such as Storable, JSON::XS usually compares favourably in terms of speed, too.

If not available, "JSON" returns a JSON::PP object instead of JSON::XS and it is very slow as pure-Perl.

\* simple to use

This module has both a simple functional interface as well as an object oriented interface interface.

\* reasonably versatile output formats

You can choose between the most compact guaranteed-single-line format possible (nice for simple line-based protocols), a pure-ASCII format (for when your transport is not 8-bit clean, still supports the whole Unicode range), or a pretty-printed format (for when you want to read that stuff). Or you can combine those features in whatever way you like.

## FUNCTIONAL INTERFACE

Some documents are copied and modified from "FUNCTIONAL INTERFACE" in JSON::XS. "to\_json" and "from\_json" are additional functions.

### to\_json

```
$json_text = to_json($perl_scalar)
```

Converts the given Perl data structure to a json string.

This function call is functionally identical to:

```
$json_text = JSON->new->encode($perl_scalar)
```

Takes a hash reference as the second.

```
$json_text = to_json($perl_scalar, $flag_hashref)
```

So,

```
$json_text = encode_json($perl_scalar, { utf8 => 1, pretty => 1 })
```

equivalent to:

```
$json_text = JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

from\_json

```
$perl_scalar = from_json($json_text)
```

The opposite of "to\_json": expects a json string and tries to parse it, returning the resulting reference.

This function call is functionally identical to:

```
$perl_scalar = JSON->decode($json_text)
```

Takes a hash reference as the second.

```
$perl_scalar = from_json($json_text, $flag_hashref)
```

So,

```
$perl_scalar = from_json($json_text, { utf8 => 1 })
```

equivalent to:

```
$perl_scalar = JSON->new->utf8(1)->decode($json_text)
```

encode\_json

```
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

```
$json_text = JSON->new->utf8->encode($perl_scalar)
```

decode\_json

```
$perl_scalar = decode_json $json_text
```

The opposite of "encode\_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the

resulting reference.

This function call is functionally identical to:

```
$perl_scalar = JSON->new->utf8->decode($json_text)
```

JSON::is\_bool

```
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl strings.

JSON::true

Returns JSON true value which is blessed object. It "isa" JSON::Boolean object.

JSON::false

Returns JSON false value which is blessed object. It "isa" JSON::Boolean object.

JSON::null

Returns "undef".

See MAPPING, below, for more information on how JSON values are mapped to Perl.

## COMMON OBJECT-ORIENTED INTERFACE

new

```
$json = new JSON
```

Returns a new "JSON" object inherited from either JSON::XS or JSON::PP that can be used to de/encode JSON strings.

All boolean flags described below are by default \*disabled\*.

The mutators for flags all return the JSON object again and thus calls can be chained:

```
my $json = JSON->new->utf8->space_after->encode({a => [1,2]})  
=> {"a": [1, 2]}
```

ascii

```
$json = $json->ascii([$enable])
```

```
$enabled = $json->get_ascii
```

If \$enable is true (or missing), then the encode method will not

generate characters outside the code range 0..127. Any Unicode characters outside that range will be escaped using either a single `\uXXXX` or a double `\uHHHH\uLLLLL` escape sequence, as per RFC4627.

If `$enable` is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

This feature depends on the used Perl version and environment.

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

```
JSON->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]
```

latin1

```
$json = $json->latin1([$enable])
```

```
$enabled = $json->get_latin1
```

If `$enable` is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If `$enable` is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

```
JSON->new->latin1->encode(["\x{89}\x{abc}"])
=> ["\x{89}\u0abc"] # (perl syntax, U+abc escaped, U+89 not)
```

utf8

```
$json = $json->utf8([$enable])
```

```
$enabled = $json->get_utf8
```

If `$enable` is true (or missing), then the encode method will encode the JSON result into UTF-8, as required by many protocols, while the decode method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bitwise/binary I/O.

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If `$enable` is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsoncontext = encode "UTF-16BE", JSON::XS->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON::XS->new->decode (decode "UTF-32LE", $jsoncontext);
```

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

pretty

```
$json = $json->pretty([$enable])
```

This enables (or disables) all of the "indent", "space\_before" and "space\_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

Equivalent to:

```
$json->indent->space_before->space_after
```

The indent space length is three and JSON::XS cannot change the indent space length.

indent

```
$json = $json->indent([$enable])
```

```
$enabled = $json->get_indent
```

If \$enable is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If \$enable is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any "newlines".

This setting has no effect when decoding JSON texts.

The indent space length is three. With JSON::PP, you can also access "indent\_length" to change indent space length.

space\_before

```
$json = $json->space_before([$enable])
```

```
$enabled = $json->get_space_before
```



If `$enable` is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If `$enable` is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, `space_before` enabled, `space_after` and `indent` disabled:

```
{ "key" : "value" }
```

`space_after`

```
$json = $json->space_after([$enable])
```

```
$enabled = $json->get_space_after
```

If `$enable` is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the "," separating key-value pairs and array members.

If `$enable` is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, `space_before` and `indent` disabled, `space_after` enabled:

```
{ "key": "value" }
```

`relaxed`

```
$json = $json->relaxed([$enable])
```

```
$enabled = $json->get_relaxed
```

If `$enable` is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. \*Be aware that this option makes you accept invalid JSON texts as if they were valid!\*. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If `$enable` is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

\* list items can have an end-comma

JSON \*separates\* array elements and key-value pairs with commas.

This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[
  1,
  2, <- this comma not normally allowed
]
{
  "k1": "v1",
  "k2": "v2", <- this comma not normally allowed
}
```

\* shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, # this comment not allowed in JSON
    # neither this one...
]
```

canonical

```
$json = $json->canonical([$enable])
```

```
$enabled = $json->get_canonical
```

If `$enable` is true (or missing), then the "encode" method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If `$enable` is false, then the "encode" method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

#### allow\_nonref

```
$json = $json->allow_nonref([$enable])
```

```
$enabled = $json->get_allow_nonref
```

If `$enable` is true (or missing), then the "encode" method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, "decode" will accept those JSON values instead of croaking.

If `$enable` is false, then the "encode" method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, "decode" will croak if given something that is not a JSON object or array.

```
JSON->new->allow_nonref->encode("Hello, World!")  
=> "Hello, World!"
```

#### allow\_unknown

```
$json = $json->allow_unknown([$enable])
```

```
$enabled = $json->get_allow_unknown
```

If `$enable` is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by `<allow_nonref>`.

If `$enable` is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

#### allow\_blessed

```
$json = $json->allow_blessed([$enable])
```

```
$enabled = $json->get_allow_blessed
```

If `$enable` is true (or missing), then the "encode" method will not barf when it encounters a blessed reference. Instead, the value of the `convert_blessed` option will decide whether "null" ("convert\_blessed" disabled or no "TO\_JSON" method found) or a representation of the object ("convert\_blessed" enabled and "TO\_JSON" method found) is being encoded. Has no effect on "decode".

If `$enable` is false (the default), then "encode" will throw an exception

when it encounters a blessed object.

convert\_blessed

```
$json = $json->convert_blessed([$enable])
```

```
$enabled = $json->get_convert_blessed
```

If `$enable` is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO\_JSON" method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no "TO\_JSON" method is found, the value of "allow\_blessed" will decide what to do.

The "TO\_JSON" method may safely call die if it wants. If "TO\_JSON" returns other blessed objects, those will be handled in the same way. "TO\_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO\_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with the "to\_json" function or method.

This setting does not yet influence "decode" in any way.

If `$enable` is false, then the "allow\_blessed" setting will decide what to do when a blessed object is found.

convert\_blessed\_universally mode

If use "JSON" with "-convert\_blessed\_universally", the "UNIVERSAL::TO\_JSON" subroutine is defined as the below code:

```
*UNIVERSAL::TO_JSON = sub {
    my $b_obj = B::svref_2object( $_[0] );
    return $b_obj->isa('B::HV') ? { %{ $_[0] } }
        : $b_obj->isa('B::AV') ? [ @ { $_[0] } ]
        : undef
    ;
}
```

This will cause that "encode" method converts simple blessed objects into JSON objects as non-blessed object.

```
JSON -convert_blessed_universally;
$json->allow_blessed->convert_blessed->encode( $blessed_object )
```

This feature is experimental and may be removed in the future.

filter\_json\_object

```
$json = $json->filter_json_object([$coderef])
```

When `$coderef` is specified, it will be called from "decode" each time it decodes a JSON object. The only argument passed to the `coderef` is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: *\*not\** "undef", which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When `$coderef` is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}');
```

`filter_json_single_key_object`

```
$json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to "filter\_json\_object", but is only called for JSON objects having a single key named `$key`.

This `$coderef` is called before the one specified via "filter\_json\_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter\_json\_object" will be called next, as if no single-key callback were specified.

If `$coderef` is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often than the "filter\_json\_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "`__class_whatever__`", or

"\$\_\_dollars\_are\_rarely\_used\_\_\$" or "}  
}ugly\_brace\_placement", or even things like "\_\_class\_md5sum(classname)\_\_\$", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ "\_\_widget\_\_" => <id> }" into the corresponding \$WIDGET{<id>} object:

```
# return whatever is in $WIDGET{5}:
JSON
->new
->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5}')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
    my ($self) = @_ ;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id..;
        $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
}

shrink
$json = $json->shrink([$enable])

$enabled = $json->get_shrink
```

With JSON::XS, this flag resizes strings generated by either "encode" or "decode" to their minimum size possible. This can save memory when your JSON texts are either very very long or you have many short strings. It will also try to downgrade any strings to octet-form if possible: perl stores strings internally either in an encoding called UTF-X or in octet-form. The latter cannot store everything but uses less space in general (and some buggy Perl or C code might even rely on that internal representation being used).

With JSON::PP, it is noop about resizing strings but tries "utf8::downgrade" to the returned string by "encode". See to utf8.

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS and "METHODS" in JSON::PP.

max\_depth

```
$json = $json->max_depth([$maximum_nesting_depth])
```

```
$max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of "{" or "[" characters without their matching closing parenthesis crossed to reach a given character in a string.

If no argument is given, the highest possible setting will be used, which is rarely useful.

Note that nesting is implemented by recursion in C. The default value has been chosen to be as large as typical operating systems allow without crashing. (JSON::XS)

With JSON::PP as the backend, when a large value (100 or more) was set and it de/encodes a deep nested object/text, it may raise a warning 'Deep recursion on subroutine' at the perl runtime phase.

See "SECURITY CONSIDERATIONS" in JSON::XS for more info on why this is useful.

max\_size

```
$json = $json->max_size([$maximum_string_size])
```

```
$max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer than this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

See "SECURITY CONSIDERATIONS" in JSON::XS, below, for more info on why this is useful.

encode

```
$json_text = $json->encode($perl_scalar)
```

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. "undef") become JSON "null" values. References to the integers 0 and 1 are converted into "true" and "false".

decode

```
$perl_scalar = $json->decode($json_text)
```

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. "true" becomes 1 ("JSON::true"), "false" becomes 0 ("JSON::false") and "null" becomes "undef".

decode\_prefix

```
($perl_scalar, $characters) = $json->decode_prefix($json_text)
```

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

```
JSON->new->decode_prefix("[1] the tail")  
=> ([], 3)
```

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS

property

```
$boolean = $json->property($property_name)
```

Returns a boolean value about above some properties.

The available properties are "ascii", "latin1", "utf8", "indent", "space\_before", "space\_after", "relaxed", "canonical", "allow\_nonref", "allow\_unknown", "allow\_blessed", "convert\_blessed", "shrink", "max\_depth" and "max\_size".

```
$boolean = $json->property('utf8');  
=> 0  
$json->utf8;  
$boolean = $json->property('utf8');  
=> 1
```



Sets the property with a given boolean value.

```
$json = $json->property($property_name => $boolean);
```

With no argument, it returns all the above properties as a hash reference.

```
$flag_hashref = $json->property();
```

## INCREMENTAL PARSING

In JSON::XS 2.2, incremental parsing feature of JSON texts was implemented. Please check to "INCREMENTAL PARSING" in JSON::XS.

```
[void, scalar or list context] = $json->incr_parse ([ $string ])
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If \$string is given, then this string is appended to the already existing JSON fragment stored in the \$json object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly *one* JSON object. If that is successful, it will return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr\_skip" to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

```
$lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This *only* works when a preceding call to "incr\_parse" in *scalar context* successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it *will* fail under real world conditions). As a special

exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

In Perl 5.005, "lvalue" attribute is not available. You must write codes like the below:

```
$string = $json->incr_text;
$string =~ s/\s*,\s*//;
$json->incr_text( $string );
```

#### `$json->incr_skip`

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after "incr\_parse" died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

#### `$json->incr_reset`

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

### JSON::PP SUPPORT METHODS

The below methods are JSON::PP own methods, so when "JSON" works with JSON::PP (i.e. the created object is a JSON::PP object), available. See to "JSON::PP OWN METHODS" in JSON::PP in detail.

If you use "JSON" with additional "-support\_by\_pp", some methods are available even with JSON::XS. See to "USE PP FEATURES EVEN THOUGH XS BACKEND".

```
BEING { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }
```

```
use JSON -support_by_pp;
```

```
my $json = new JSON;
$json->allow_nonref->escape_slash->encode("");
```

```
# functional interfaces too.
print to_json([""], {escape_slash => 1});
print from_json(["foo"], {utf8 => 1});
```

If you do not want to all functions but "-support\_by\_pp", use "-no\_export".

```
use JSON -support_by_pp, -no_export;  
# functional interfaces are not exported.
```

allow\_singlequote

```
$json = $json->allow_singlequote([$enable])
```

If \$enable is true (or missing), then "decode" will accept any JSON strings quoted by single quotations that are invalid JSON format.

```
$json->allow_singlequote->decode({'foo':'bar'});  
$json->allow_singlequote->decode({'foo':"bar"});  
$json->allow_singlequote->decode({'foo':bar});
```

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.

allow\_barekey

```
$json = $json->allow_barekey([$enable])
```

If \$enable is true (or missing), then "decode" will accept bare keys of JSON object that are invalid JSON format.

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.

```
$json->allow_barekey->decode({'foo:bar'});
```

allow\_bignum

```
$json = $json->allow_bignum([$enable])
```

If \$enable is true (or missing), then "decode" will convert the big integer Perl cannot handle as integer into a Math::BigInt object and convert a floating number (any) into a Math::BigFloat.

On the contrary, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers with "allow\_blessed" enable.

```
$json->allow_nonref->allow_blessed->allow_bignum;  
$bigfloat = $json->decode('2.00000000000000000000000000000001');  
print $json->encode($bigfloat);  
# => 2.00000000000000000000000000000001
```

See to MAPPING about the conversion of JSON number.

loose

```
$json = $json->loose([$enable])
```

The unescaped [`\x00-\x1f\x22\x2f\x5c`] strings are invalid in JSON strings and the module doesn't allow to "decode" to these (except for `\x2f`). If `$enable` is true (or missing), then "decode" will accept these unescaped strings.

```
$json->loose->decode(qq["abc  
def"]);
```

See to "JSON::PP OWN METHODS" in JSON::PP.

escape\_slash

```
$json = $json->escape_slash([$enable])
```

According to JSON Grammar, `*slash*` (U+002F) is escaped. But by default JSON backend modules encode strings without escaping slash.

If `$enable` is true (or missing), then "encode" will escape slashes.

indent\_length

```
$json = $json->indent_length($length)
```

With JSON::XS, The indent space length is 3 and cannot be changed. With JSON::PP, it sets the indent space length with the given `$length`. The default is 3. The acceptable range is 0 to 15.

sort\_by

```
$json = $json->sort_by($function_name)  
$json = $json->sort_by($subroutine_ref)
```

If `$function_name` or `$subroutine_ref` are set, its sort routine are used.

```
$js = $pc->sort_by(sub { $JSON::PP::a cmp $JSON::PP::b }->encode($obj);  
# is($js, q{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9});
```

```
$js = $pc->sort_by('own_sort')->encode($obj);  
# is($js, q{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9});
```

```
sub JSON::PP::own_sort { $JSON::PP::a cmp $JSON::PP::b }
```

As the sorting routine runs in the JSON::PP scope, the given subroutine name and the special variables `$a`, `$b` will begin with 'JSON::PP::'.

If `$integer` is set, then the effect is same as "canonical" on.

See to "JSON::PP OWN METHODS" in JSON::PP.

## MAPPING

This section is copied from JSON::XS and modified to "JSON". JSON::XS and JSON::PP mapping mechanisms are almost equivalent.

See to "MAPPING" in JSON::XS.

### JSON -> PERL

#### object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

#### array

A JSON array becomes a reference to an array in Perl.

#### string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

#### number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, "JSON" will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

If the backend is JSON::PP and "allow\_bignum" is enable, the big integers and the numeric can be optionally converted into Math::BigInt and Math::BigFloat objects.

#### true, false

These JSON atoms become "JSON::true" and "JSON::false",

respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is\_bool" function.

If "JSON::true" and "JSON::false" are used as strings or compared as strings, they represent as "true" and "false" respectively.

```
print JSON::true . "\n";
=> true
print JSON::true + 1;
=> 1
```

```
ok(JSON::true eq 'true');
ok(JSON::true eq '1');
ok(JSON::true == 1);
```

"JSON" will install these missing overloading features to the backend modules.

#### null

A JSON null atom becomes "undef" in Perl.

"JSON::null" returns "undef".

#### PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

#### hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a program. "JSON" optionally sort the hash keys (determined by the *\*canonical\** flag), so the same datastructure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

In future, the ordered object feature will be added to JSON::PP using "tie" mechanism.

#### array references

Perl array references become JSON arrays.

#### other references

Other unblest references are generally not allowed and will cause

an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.

```
to_json [0,JSON::true] # yields [false,true]
```

JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values, respectively. You can also use "\1" and "\0" directly if you want.

JSON::null returns "undef".

blessed objects

Blessed objects are not directly representable in JSON. See the "allow\_blessed" and "convert\_blessed" methods on various options on how to deal with this: basically, you can choose between throwing an exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

With "convert\_blessed\_universally" mode, "encode" converts blessed hash references or blessed array references (contains other blessed references) into JSON members and arrays.

```
use JSON -convert_blessed_universally;
JSON->new->allow_blessed->convert_blessed->encode( $blessed_object );
```

See to\_convert\_blessed.

simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [2]          # yields [2]
encode_json [-3.0e17]    # yields [-3e+17]
my $value = 5; encode_json [$value] # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value]     # yields ["5"]

# undef becomes null
encode_json [undef]     # yields [null]
```

You can force the type to be a string by stringifying it:

```
my $x = 3.1; # some variable containing a number
"$x";      # stringified
$x .= "";  # another, more awkward way to stringify
print $x;  # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
my $x = "3"; # some variable containing a string
$x += 0;    # numify it, ensuring it will be dumped as a number
$x *= 1;    # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways.

### Big Number

If the backend is `JSON::PP` and `"allow_bignum"` is enable, `"encode"` converts `"Math::BigInt"` objects and `"Math::BigFloat"` objects into JSON numbers.

### JSON and ECMAScript

See to `"JSON and ECMAScript"` in `JSON::XS`.

### JSON and YAML

JSON is not a subset of YAML. See to `"JSON and YAML"` in `JSON::XS`.

### BACKEND MODULE DECISION

When you use `"JSON"`, `"JSON"` tries to `"use"` `JSON::XS`. If this call failed, it will `"uses"` `JSON::PP`. The required `JSON::XS` version is `*2.2*` or later.

The `"JSON"` constructor method returns an object inherited from the backend module, and `JSON::XS` object is a blessed scalar reference while `JSON::PP` is a blessed hash reference.

So, your program should not depend on the backend module, especially returned objects should not be modified.

```
my $json = JSON->new; # XS or PP?
$json->{stash} = 'this is xs object'; # this code may raise an error!
```

To check the backend module, there are some methods - `"backend"`, `"is_pp"` and `"is_xs"`.

```
JSON->backend; # 'JSON::XS' or 'JSON::PP'
```

```
JSON->backend->is_pp; # 0 or 1
```

```
JSON->backend->is_xs; # 1 or 0
```



```
$json->is_xs; # 1 or 0
```

```
$json->is_pp; # 0 or 1
```

If you set an environment variable "PERL\_JSON\_BACKEND", The calling action will be changed.

```
PERL_JSON_BACKEND = 0 or PERL_JSON_BACKEND = 'JSON::PP'
```

Always use JSON::PP

```
PERL_JSON_BACKEND == 1 or PERL_JSON_BACKEND = 'JSON::XS,JSON::PP'
```

(The default) Use compiled JSON::XS if it is properly compiled & installed, otherwise use JSON::PP.

```
PERL_JSON_BACKEND == 2 or PERL_JSON_BACKEND = 'JSON::XS'
```

Always use compiled JSON::XS, die if it isn't properly compiled & installed.

These ideas come from DBI::PurePerl mechanism.

example:

```
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::PP' }
```

```
use JSON; # always uses JSON::PP
```

In future, it may be able to specify another module.

#### USE PP FEATURES EVEN THOUGH XS BACKEND

Many methods are available with either JSON::XS or JSON::PP and when the backend module is JSON::XS, if any JSON::PP specific (i.e. JSON::XS unsupported) method is called, it will "warn" and be noop.

But If you "use" "JSON" passing the optional string "-support\_by\_pp", it makes a part of those unsupported methods available. This feature is achieved by using JSON::PP in "de/encode".

```
BEGIN { $ENV{PERL_JSON_BACKEND} = 2 } # with JSON::XS
```

```
use JSON -support_by_pp;
```

```
my $json = new JSON;
```

```
$json->allow_nonref->escape_slash->encode("");
```

At this time, the returned object is a "JSON::Backend::XS::Supportable" object (re-blessed XS object), and by checking JSON::XS unsupported flags in de/encoding, can support some unsupported methods - "loose", "allow\_bignum", "allow\_barekey", "allow\_singlequote", "escape\_slash", "as\_nonblessed" and "indent\_length".

When any unsupported methods are not enable, "XS de/encode" will be used as is. The switch is achieved by changing the symbolic tables.

"-support\_by\_pp" is effective only when the backend module is JSON::XS and it makes the de/encoding speed down a bit.

See to "JSON::PP SUPPORT METHODS".

#### INCOMPATIBLE CHANGES TO OLD VERSION

There are big incompatibility between new version (2.00) and old (1.xx). If you use old "JSON" 1.xx in your code, please check it.

See to "Transition ways from 1.xx to 2.xx."

jsonToObj and objToJson are obsoleted.

Non Perl-style name "jsonToObj" and "objToJson" are obsoleted (but not yet deleted from the source). If you use these functions in your code, please replace them with "from\_json" and "to\_json".

Global variables are no longer available.

"JSON" class variables - \$JSON::AUTOCONVERT, \$JSON::BareKey, etc... - are not available any longer. Instead, various features can be used through object methods.

Package JSON::Converter and JSON::Parser are deleted.

Now "JSON" bundles with JSON::PP which can handle JSON more properly than them.

Package JSON::NotString is deleted.

There was "JSON::NotString" class which represents JSON value "true", "false", "null" and numbers. It was deleted and replaced by "JSON::Boolean".

"JSON::Boolean" represents "true" and "false".

"JSON::Boolean" does not represent "null".

"JSON::null" returns "undef".

"JSON" makes JSON::XS::Boolean and JSON::PP::Boolean is-a relation to JSON::Boolean.

function JSON::Number is obsoleted.

"JSON::Number" is now needless because JSON::XS and JSON::PP have round-trip integrity.

JSONRPC modules are deleted.

Perl implementation of JSON-RPC protocol - "JSONRPC ",

"JSONRPC::Transport::HTTP" and "Apache::JSONRPC " are deleted in this distribution. Instead of them, there is JSON::RPC which supports JSON-RPC protocol version 1.1.

Transition ways from 1.xx to 2.xx.

You should set "support\_by\_pp" mode firstly, because it is always successful for the below codes even with JSON::XS.

```
use JSON -support_by_pp;
```

Exported jsonToObj (simple)

```
from_json($json_text);
```

Exported objToJson (simple)

```
to_json($perl_scalar);
```

Exported jsonToObj (advanced)

```
$flags = {allow_barekey => 1, allow_singlequote => 1};  
from_json($json_text, $flags);
```

equivalent to:

```
$JSON::BareKey = 1;  
$JSON::QuotApos = 1;  
jsonToObj($json_text);
```

Exported objToJson (advanced)

```
$flags = {allow_blessed => 1, allow_barekey => 1};  
to_json($perl_scalar, $flags);
```

equivalent to:

```
$JSON::BareKey = 1;  
objToJson($perl_scalar);
```

jsonToObj as object method

```
$json->decode($json_text);
```

objToJson as object method

```
$json->encode($perl_scalar);
```

new method with parameters

The "new" method in 2.x takes any parameters no longer. You can set parameters instead;

```
$json = JSON->new->pretty;
```

```
$JSON::Pretty, $JSON::Indent, $JSON::Delimiter
```

If "indent" is enable, that menas \$JSON::Pretty flag set. And \$JSON::Delimiter was substituted by "space\_before" and "space\_after". In conclusion:

```
$json->indent->space_before->space_after;
```

Equivalent to:

```
$json->pretty;
```

To change indent length, use "indent\_length".

(Only with JSON::PP, if "-support\_by\_pp" is not used.)

```
$json->pretty->indent_length(2)->encode($perl_scalar);
```

**\$JSON::BareKey**

(Only with JSON::PP, if "-support\_by\_pp" is not used.)

```
$json->allow_barekey->decode($json_text)
```

**\$JSON::ConvBlessed**

use "-convert\_blessed\_universally". See to convert\_blessed.

**\$JSON::QuotApos**

(Only with JSON::PP, if "-support\_by\_pp" is not used.)

```
$json->allow_singlequote->decode($json_text)
```

**\$JSON::SingleQuote**

Disable. "JSON" does not make such a invalid JSON string any longer.

**\$JSON::KeySort**

```
$json->canonical->encode($perl_scalar)
```

This is the ascii sort.

If you want to use with your own sort routine, check the "sort\_by" method.

(Only with JSON::PP, even if "-support\_by\_pp" is used currently.)

```
$json->sort_by($sort_routine_ref)->encode($perl_scalar)
```

```
$json->sort_by(sub { $JSON::PP::a <=> $JSON::PP::b })->encode($perl_scalar)
```

Can't access \$a and \$b but \$JSON::PP::a and \$JSON::PP::b.

`$JSON::SkipInvalid`

`$json->allow_unknown`

`$JSON::AUTOCONVERT`

Needless. "JSON" backend modules have the round-trip integrity.

`$JSON::UTF8`

Needless because "JSON" (`JSON::XS/JSON::PP`) sets the UTF8 flag on properly.

```
# With UTF8-flagged strings
```

```
$json->allow_nonref;
```

```
$str = chr(1000); # UTF8-flagged
```

```
$json_text = $json->utf8(0)->encode($str);
```

```
utf8::is_utf8($json_text);
```

```
# true
```

```
$json_text = $json->utf8(1)->encode($str);
```

```
utf8::is_utf8($json_text);
```

```
# false
```

```
$str = "" . chr(1000) . ""; # UTF8-flagged
```

```
$perl_scalar = $json->utf8(0)->decode($str);
```

```
utf8::is_utf8($perl_scalar);
```

```
# true
```

```
$perl_scalar = $json->utf8(1)->decode($str);
```

```
# died because of 'Wide character in subroutine'
```

See to "A FEW NOTES ON UNICODE AND PERL" in `JSON::XS`.

`$JSON::UnMapping`

Disable. See to `MAPPING`.

`$JSON::SelfConvert`

This option was deleted. Instead of it, if a given blessed object has the "TO\_JSON" method, "TO\_JSON" will be executed with "convert\_blessed".

```
$json->convert_blessed->encode($bleesed_hashref_or_arrayref)
```

```
# if need, call allow_blessed
```

Note that it was "toJson" in old version, but now not "toJson" but "TO\_JSON".

TODO

example programs

## THREADS

No test with JSON::PP. If with JSON::XS, See to "THREADS" in JSON::XS.

## BUGS

Please report bugs relevant to "JSON" to <makamaka[at]cpan.org>.

## SEE ALSO

Most of the document is copied and modified from JSON::XS doc.

JSON::XS, JSON::PP

"RFC4627"(<<http://www.ietf.org/rfc/rfc4627.txt>>)

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JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc Lehmann.

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```

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## 2.173 JSON-XS 2.26

### 2.173.1 Available under license :

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

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## 2.174 jwhois 4.0

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Version 3, 29 June 2007

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## 2.175 kexec-tools 2.0.4

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```

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## 2.176 KVM inter-VM shared memory module 1

### 2.176.1 Available under license :

Nahanni/ivshmem guest-code

(C) Cam Macdonell 2009-2011

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## 2.180 libart\_lgpl 2.3.20

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## 2.181 libdnet 1.12

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```
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 *
 * Adapted from OpenBSD libc *err* *warn* code.
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## 2.183 libnet 1.0.2a



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libnet 1.0.x

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EOF

/\*

\* \$Id: ether\_mod-2.6.c,v 1.1.1.1 2000/05/25 00:28:49 route Exp \$

\*

\* libnet

\* OpenBSD 2.6 ether\_mod.c - lkm replacement for ether\_output

\* UNTESTED as of Thu Mar 9 21:52:03 PST 2000.

\*

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*   @(#)if_ethersubr.c   8.1 (Berkeley) 6/10/93
*/

```

## 2.184 libnl 3.2.1

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- \*
- \* @(#) \$Header: /tcpdump/master/libpcap/sunatmpos.h,v 1.1 2002-07-11 09:06:47 guy Exp \$ (LBL)
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<snip>

## 2.188 libusb 0.1.12

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```

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That's all there is to it!

## 2.190 libwww-perl 5.834

### 2.190.1 Available under license :

LIBWWW-PERL-5

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The libwww-perl collection is a set of Perl modules which provides a  
simple and consistent application programming interface to the  
World-Wide Web. The main focus of the library is to provide classes  
and functions that allow you to write WWW clients. The library also  
contain modules that are of more general use and even classes that  
help you implement simple HTTP servers.

#### PREREQUISITES

In order to install and use this package you will need Perl version  
5.6 or better. Some modules within this package depend on other  
packages that are distributed separately from Perl. We recommend that

you have the following packages installed before you install libwww-perl:

- URI
- MIME-Base64
- HTML-Tagset
- HTML-Parser
- libnet
- Digest-MD5
- Compress-Zlib

If you want to access sites using the https protocol, then you need to install the Crypt::SSLeay or the IO::Socket::SSL module. The README.SSL file will tell you more about how libwww-perl supports SSL.

## INSTALLATION

You install libwww-perl using the normal perl module distribution drill:

```
perl Makefile.PL
make
make test
make install
```

If you don't want to install any programs (only the library files) then pass the '--no-programs' option to Makefile.PL:

```
perl Makefile.PL --no-programs
```

## DOCUMENTATION

See the lib/LWP.pm file for an overview of the library. See the Changes file for recent changes.

POD style documentation is included in all modules and scripts. These are normally converted to manual pages and installed as part of the "make install" process. You should also be able to use the 'perldoc' utility to extract and read documentation from the module files directly.

## SUPPORT

Bug reports and suggestions for improvements can be sent to the <libwww@perl.org> mailing list. This mailing list is also the place for general discussions and development of the libwww-perl package.

## AVAILABILITY

The latest version of libwww-perl is available from CPAN:

```
http://search.cpan.org/dist/libwww-perl/
```

If you want to hack on the source it might be a good idea to grab the latest version with git using the command:

```
git clone git://gitorious.org/libwww-perl/mainline.git lwp
```

You can also browse the git repository at:

```
http://gitorious.org/projects/libwww-perl
```

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That's all there is to it!

## 2.191 libxml2 2.7.8

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## 2.193 lilo 22.8

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

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when it starts in an interactive mode:

```
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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  
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necessary. Here is a sample; alter the names:

```
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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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## 2.197 List-MoreUtils 0.22

### 2.197.1 Available under license :

List-MoreUtils version 0.22

=====

Provide the missing functionality from List::Util (see "SUGGESTED ADDITIONS" in its manpage).

#### INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

#### DEPENDENCIES



This module requires these other modules and libraries:

No modules, but a C compiler would be nice  
(although not strictly required)

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## 2.198 Log-Trace 1.07

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## 2.204 Math-Base85 0.2

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README...

=====  
Math::Base85 Version 0.2  
=====

This module handles numbers in base 85, via strings and Math::BigInt.  
For more information, read the module or rfc1924.txt.

The usual installation instructions apply:

```
/path/to/perl Makefile.PL  
make  
make test  
make install
```

Please report bugs to the author at <tmonroe plus perl at nog dot net>.

-----  
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```

```
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```

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## 2.205 Math-BigInt-GMP 1.24

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```

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

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# 2.206 Math-BigInt-Pari 1.13

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To do so, attach the following notices to the program. It is safest to

attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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 1, or (at your option) any later version.

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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) 19xx 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 a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
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!

## 2.207 Math-Complex 1.56

### 2.207.1 Available under license :

```
--- #YAML:1.0
name:      Math-Complex
version:   1.56
abstract:  ~
license:   perl
author:    ~
generated_by: ExtUtils::MakeMaker version 6.42
distribution_type: module
requires:
  Scalar::Util:      1.11
  Test::More:        0
meta-spec:
  url:  http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
  The "Artistic License"
```

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c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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Version 1, February 1989

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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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This program is free software; you can redistribute it and/or modify  
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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) 19xx 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

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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## 2.208 Math-GMP 2.06

### 2.208.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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# 2.209 Math-Pari 2.01080602

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from README...

<snip>

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```
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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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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
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!

## 2.214 MIME-Types 1.28

### 2.214.1 Available under license :

```
--- #YAML:1.0
name:      MIME-Types
version:   1.28
abstract:  Definition of MIME types
license:   perl
author:
  - Mark Overmeer
generated_by: ExtUtils::MakeMaker version 6.42
distribution_type: module
requires:
  Test::More:      0.47
  Test::Pod:       1
meta-spec:
  url:  http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
  The "Artistic License"
```

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

The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

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

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## 2.215 minicom 2.6.1

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```
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## 2.218 Module-Pluggable 3.9

### 2.218.1 Available under license :

README

<snip>

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BUGS

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SEE ALSO

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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
```

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## 2.219 msmtplib 1.4.19

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# 2.220 Ncurses 5.6

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-----  
-- $Id: README,v 1.23 2006/04/22 22:19:37 tom Exp $  
-----
```

README file for the ncurses package

See the file ANNOUNCE for a summary of ncurses features and ports.  
See the file INSTALL for instructions on how to build and install ncurses.  
See the file NEWS for a release history and bug-fix notes.  
See the file TO-DO for things that still need doing, including known bugs.

Browse the file misc/ncurses-intro.html for narrative descriptions of how to use ncurses and the panel, menu, and form libraries.

Browse the file doc/html/hackguide.html for a tour of the package internals.

ROADMAP AND PACKAGE OVERVIEW:

You should be reading this file in a directory called: ncurses-d.d, where d.d



is the current version number (see the dist.mk file in this directory for that). There should be a number of subdirectories, including `c++`, `form`, `man`, `menu`, `misc`, `ncurses`, `panel`, `progs`, `test`, `tack` and `Ada95`. (The `tack` program may be distributed separately).

A full build/install of this package typically installs several libraries, a handful of utilities, and a database hierarchy. Here is an inventory of the pieces:

The libraries are:

```
libncurses.a    (normal)
libncurses.so   (shared)
libncurses_g.a (debug and trace code enabled)
libncurses_p.a (profiling enabled)

libpanel.a      (normal)
libpanel.so     (shared)
libpanel_g.a   (debug and trace code enabled)

libmenu.a       (normal)
libmenu.so      (shared)
libmenu_g.a    (debug enabled)

libform.a       (normal)
libform.so      (shared)
libform_g.a    (debug enabled)
```

If you configure using the `--enable-widex` option, a "w" is appended to the library names (e.g., `libncursesw.a`), and the resulting libraries support wide-characters, e.g., via a UTF-8 locale. The corresponding header files are compatible with the non-wide-character configuration; wide-character features are provided by `ifdef's` in the header files. The wide-character library interfaces are not binary-compatible with the non-wide-character version.

The `ncurses` libraries implement the `curses` API. The `panel`, `menu` and `forms` libraries implement clones of the SVr4 `panel`, `menu` and `forms` APIs. The source code for these lives in the ``ncurses'`, ``panel'`, ``menu'`, and ``form'` directories respectively.

In the ``c++'` directory, you'll find code that defines an interface to the `curses`, `forms`, `menus` and `panels` library packaged as C++ classes, and a demo program in C++ to test it. These class definition modules are not installed by the `'make install.libs'` rule as `libncurses++`.

In the ``Ada95'` directory, you'll find code and documentation for an Ada95 binding of the `curses` API, to be used with the GNAT compiler.

This binding is built by a normal top-level ``make'` if configure detects an usable version of GNAT (3.11 or above). It is not installed automatically. See the Ada95 directory for more build and installation instructions and for documentation of the binding.

To do its job, the ncurses code needs your terminal type to be set in the environment variable TERM (normally set by your OS; under UNIX, `getty(1)` typically does this, but you can override it in your `.profile`); and, it needs a database of terminal descriptions in which to look up your terminal type's capabilities.

In older (V7/BSD) versions of curses, the database was a flat text file, `/etc/termcap`; in newer (USG/USL) versions, the database is a hierarchy of fast-loading binary description blocks under `/usr/lib/terminfo`. These binary blocks are compiled from an improved editable text representation called ``terminfo'` format (documented in `man/terminfo.5`). The ncurses library can use either `/etc/termcap` or the compiled binary terminfo blocks, but prefers the second form.

In the ``misc'` directory, there is a text file `terminfo.src`, in editable terminfo format, which can be used to generate the terminfo binaries (that's what `make install.data` does). If the package was built with the `--enable-termcap` option enabled, and the ncurses library cannot find a terminfo description for your terminal, it will fall back to the termcap file supplied with your system (which the ncurses package installation leaves strictly alone).

The utilities are as follows:

```
tic      -- terminfo source to binary compiler
infocmp  -- terminfo binary to source decompiler/comparator
clear    -- emits clear-screen for current terminal
tput     -- shell-script access to terminal capabilities.
toe     -- table of entries utility
tset     -- terminal-initialization utility
```

The first two (`tic` and `infocmp`) are used for manipulating terminfo descriptions; the next two (`clear` and `tput`) are for use in shell scripts. The last (`tset`) is provided for 4.4BSD compatibility. The source code for all of these lives in the ``progs'` directory.

Detailed documentation for all libraries and utilities can be found in the ``man'` and ``doc'` directories. An HTML introduction to ncurses, panels, and menus programming lives in the ``doc/html'` directory. Manpages in HTML format are under ``doc/html/man'`.

The ``test'` directory contains programs that can be used to verify or demonstrate the functions of the ncurses libraries. See `test/README` for

descriptions of these programs. Notably, the `ncurses' utility is designed to help you systematically exercise the library functions.

#### AUTHORS:

Pavel Curtis:

wrote the original ncurses

Zeyd M. Ben-Halim:

port of original to Linux and many enhancements.

Thomas Dickey (maintainer for 1.9.9g through 4.1, resuming with FSF's 5.0):

configuration scripts, porting, mods to adhere to XSI Curses in the areas of background color, terminal modes. Also memory leak testing, the wresize, default colors and key definition extensions and numerous bug fixes (more than half of those enumerated in NEWS beginning with the internal release 1.8.9).

Florian La Roche (official maintainer for FSF's ncurses 4.2)

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Eric S. Raymond:

the man pages, infocmp(1), tput(1), clear(1), captinfo(1), tset(1), toe(1), most of tic(1), trace levels, the HTML intro, wgetnstr() and many other entry points, the cursor-movement optimization, the scroll-pack optimizer for vertical motions, the mouse interface and xterm mouse support, and the ncurses test program.

Juergen Pfeifer

The menu and form libraries, C++ bindings for ncurses, menus, forms and panels, as well as the Ada95 binding. Ongoing support for panel.

#### CONTRIBUTORS:

Alexander V. Lukyanov

for numerous fixes and improvements to the optimization logic.

David MacKenzie

for first-class bug-chasing and methodical testing.

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the C++ code.

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for lessons in using sed.

Keith Bostic (maintainer of 4.4BSD curses)  
for help, criticism, comments, bug-finding, and being willing to  
deep-six BSD curses for this one when it grew up.

Richard Stallman,  
for his commitment to making ncurses free software.

Countless other people have contributed by reporting bugs, sending fixes,  
suggesting improvements, and generally whining about ncurses :-)

BUGS:

See the INSTALL file for bug and developer-list addresses.

The Hacker's Guide in the doc directory includes some guidelines  
on how to report bugs in ways that will get them fixed most quickly.

## 2.221 Net-AMQP 0.02

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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>
```

```
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  
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```

```
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```

```
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```

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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) 19xx 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.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.223 Net-CIDR-Lite 0.21

### 2.223.1 Available under license :

from Lite.pm

```
<snip>
```

```
=head1 COPYRIGHT
```

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```
<snip>
```

```
--- #YAML:1.0
name:      Net-CIDR-Lite
version:   0.21
abstract:  Perl extension for merging IPv4 or IPv6 CIDR addresses
author:
  - Douglas Wilson <dougw@cpan.org>
license:   unknown
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
build_requires:
  ExtUtils::MakeMaker: 0
requires:  {}
no_index:
  directory:
    - t
    - inc
generated_by:  ExtUtils::MakeMaker version 6.56
meta-spec:
  url:  http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
from README
```

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This is free software, and you are welcome to redistribute it  
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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

That's all there is to it!

## 2.224 Net-DNS 0.68

### 2.224.1 Available under license :

from /demo/mresolv

<snip>

=head1 COPYRIGHT

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<snip>

from META.yml

--- #YAML:1.0

name: Net-DNS  
version: 0.68  
abstract: Perl DNS resolver module  
author:

- Olaf Kolkman <olaf@net-dns.org>  
license: perl  
distribution\_type: module  
configure\_requires:  
 ExtUtils::MakeMaker: 0  
build\_requires:  
 ExtUtils::MakeMaker: 0  
requires:  
 Digest::HMAC\_MD5: 1  
 Digest::MD5: 2.12  
 Digest::SHA: 5.23  
 IO::Socket: 0  
 MIME::Base64: 2.11  
 Test::More: 0.18  
no\_index:  
 directory:  
 - t  
 - inc  
generated\_by: ExtUtils::MakeMaker version 6.56  
meta-spec:  
 url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
 version: 1.4  
from README

<snip>

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-----

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<snip>

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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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it under the terms of the GNU General Public License as published by  
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any later version.
```

```
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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<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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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.226 Net-IPv4Addr 0.1

### 2.226.1 Available under license :

from README

```
<snip>
```

```
Copyright
```

```
-----
```

```
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```

```
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```

```
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```
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```

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the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

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

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```
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program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.227 Net-IPv6Addr 0.2

### 2.227.1 Available under license :

from README

```
<snip>
```

```
-----
```

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-----  
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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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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.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program 'Gnomovision' (a program to direct compilers to make passes  
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!

## 2.228 Net-IPv6Addr/rfc-document 0.2

### 2.228.1 Available under license :

from rfc2373.txt This is the addressing architecture specification for IPV6.

<snip>

#### 1.0 INTRODUCTION

This specification defines the addressing architecture of the IP Version 6 protocol. It includes a detailed description of the currently defined address formats for IPv6 [IPV6]

<snip>

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<snip>

## 2.229 Net-SCP-Expect 0.16

### 2.229.1 Available under license :

from Expect.pm

<snip>

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Eric Rybski <rybskej@yahoo.com>. Please send all module inquiries to me.

=head1 ORIGINAL AUTHOR

Daniel Berger

djberg96 at yahoo dot com

<snip>

from META.yml

--- #YAML:1.0

name: Net-SCP-Expect

version: 0.16

abstract: Wrapper for scp that allows passwords via Expect.

license: ~

author:

- Eric Rybski <rybskej@yahoo.com>

generated\_by: ExtUtils::MakeMaker version 6.44

distribution\_type: module

requires:

Expect: 1.14

Net::IPv6Addr: 0.2  
Term::ReadPassword: 0.01  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.3.html>  
version: 1.3  
from README

<snip>

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djberg96 at yahoo dot com

imperator on IRC

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## 1. Introduction

The SNMP Management Framework at the time of this writing consists of five major components:

- An overall architecture, described in STD 62, RFC 3411 [RFC3411].
- Mechanisms for describing and naming objects and events for the purpose of management. The first version of this Structure of Management Information (SMI) is called SMIv1 and described in STD 16, RFC 1155 [RFC1155], STD 16, RFC 1212 [RFC1212] and RFC 1215 [RFC1215]. The second version, called SMIv2, is described in STD 58, RFC 2578 [RFC2578], STD 58, RFC 2579 [RFC2579] and STD 58, RFC 2580 [RFC2580].
- Message protocols for transferring management information. The first version of the SNMP message protocol is called SNMPv1 and described in STD 15, RFC 1157 [RFC1157]. A second version of the SNMP message protocol, which is not an Internet standards track protocol, is called SNMPv2c and described in RFC 1901 [RFC1901] and STD 62, RFC 3417 [RFC3417]. The third version of the message protocol is called SNMPv3 and described in STD 62, RFC 3417 [RFC3417], RFC 3412 [RFC3412] and RFC 3414 [RFC3414].
- Protocol operations for accessing management information. The first set of protocol operations and associated PDU formats is described in STD 15, RFC 1157 [RFC1157]. A second set of protocol operations and associated PDU formats is described in this document.
- A set of fundamental applications described in STD 62, RFC 3413 [RFC3413] and the view-based access control mechanism described in STD 62, RFC 3415 [RFC3415].

A more detailed introduction to the SNMP Management Framework at the time of this writing can be found in RFC 3410 [RFC3410].

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. Objects in the MIB are defined using the mechanisms defined in the SMI.

This document, Version 2 of the Protocol Operations for the Simple Network Management Protocol, defines the operations of the protocol with respect to the sending and receiving of PDUs to be carried by the message protocol.

## 2. Overview

SNMP entities supporting command generator or notification receiver applications (traditionally called "managers") communicate with SNMP entities supporting command responder or notification originator applications (traditionally called "agents"). The purpose of this protocol is the transport of management information and operations.

### 2.1. Management Information

The term "variable" refers to an instance of a non-aggregate object type defined according to the conventions set forth in the SMI [RFC2578] or the textual conventions based on the SMI [RFC2579]. The term "variable binding" normally refers to the pairing of the name of a variable and its associated value. However, if certain kinds of exceptional conditions occur during processing of a retrieval request, a variable binding will pair a name and an indication of that exception.

A variable-binding list is a simple list of variable bindings.

The name of a variable is an OBJECT IDENTIFIER which is the concatenation of the OBJECT IDENTIFIER of the corresponding object-type together with an OBJECT IDENTIFIER fragment identifying the instance. The OBJECT IDENTIFIER of the corresponding object-type is called the OBJECT IDENTIFIER prefix of the variable.

### 2.2. Retransmission of Requests

For all types of request in this protocol, the receiver is required under normal circumstances, to generate and transmit a response to the originator of the request. Whether or not a request should be retransmitted if no corresponding response is received in an appropriate time interval, is at the discretion of the application originating the request. This will normally depend on the urgency of the request. However, such an application needs to act responsibly in respect to the frequency and duration of re-transmissions. See BCP 41 [RFC2914] for discussion of relevant congestion control principles.

### 2.3. Message Sizes

The maximum size of an SNMP message is limited to the minimum of:

- (1) the maximum message size which the destination SNMP entity can accept; and,

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- (2) the maximum message size which the source SNMP entity can generate.

The former may be known on a per-recipient basis; and in the absence of such knowledge, is indicated by transport domain used when sending the message. The latter is imposed by implementation-specific local constraints.

Each transport mapping for the SNMP indicates the minimum message size which a SNMP implementation must be able to produce or consume. Although implementations are encouraged to support larger values whenever possible, a conformant implementation must never generate messages larger than allowed by the receiving SNMP entity.

One of the aims of the GetBulkRequest-PDU, specified in this protocol, is to minimize the number of protocol exchanges required to retrieve a large amount of management information. As such, this PDU type allows an SNMP entity supporting command generator applications to request that the response be as large as possible given the constraints on message sizes. These constraints include the limits on the size of messages which the SNMP entity supporting command responder applications can generate, and the SNMP entity supporting command generator applications can receive.

However, it is possible that such maximum sized messages may be larger than the Path MTU of the path across the network traversed by the messages. In this situation, such messages are subject to fragmentation. Fragmentation is generally considered to be harmful [FRAG], since among other problems, it leads to a decrease in the reliability of the transfer of the messages. Thus, an SNMP entity which sends a GetBulkRequest-PDU must take care to set its parameters accordingly, so as to reduce the risk of fragmentation. In particular, under conditions of network stress, only small values should be used for max-repetitions.

## 2.4. Transport Mappings

It is important to note that the exchange of SNMP messages requires only an unreliable datagram service, with every message being entirely and independently contained in a single transport datagram. Specific transport mappings and encoding rules are specified elsewhere [RFC3417]. However, the preferred mapping is the use of the User Datagram Protocol [RFC768].

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## 2.5. SMIV2 Data Type Mappings

The SMIV2 [RFC2578] defines 11 base types (INTEGER, OCTET STRING, OBJECT IDENTIFIER, Integer32, IpAddress, Counter32, Gauge32, Unsigned32, TimeTicks, Opaque, Counter64) and the BITS construct. The SMIV2 base types are mapped to the corresponding selection type in the SimpleSyntax and ApplicationSyntax choices of the ASN.1 SNMP protocol definition. Note that the INTEGER and Integer32 SMIV2 base types are mapped to the integer-value selection type of the SimpleSyntax choice. Similarly, the Gauge32 and Unsigned32 SMIV2 base types are mapped to the unsigned-integer-value selection type of the ApplicationSyntax choice.

The SMIV2 BITS construct is mapped to the string-value selection type of the SimpleSyntax choice. A BITS value is encoded as an OCTET STRING, in which all the named bits in (the definition of) the bitstring, commencing with the first bit and proceeding to the last bit, are placed in bits 8 (high order bit) to 1 (low order bit) of the first octet, followed by bits 8 to 1 of each subsequent octet in turn, followed by as many bits as are needed of the final subsequent octet, commencing with bit 8. Remaining bits, if any, of the final octet are set to zero on generation and ignored on receipt.

## 3. Definitions

The PDU syntax is defined using ASN.1 notation [ASN1].

SNMPv2-PDU DEFINITIONS ::= BEGIN

ObjectName ::= OBJECT IDENTIFIER

ObjectSyntax ::= CHOICE {  
    simple        SimpleSyntax,  
    application-wide ApplicationSyntax }

SimpleSyntax ::= CHOICE {  
    integer-value  INTEGER (-2147483648..2147483647),  
    string-value   OCTET STRING (SIZE (0..65535)),  
    objectID-value OBJECT IDENTIFIER }

ApplicationSyntax ::= CHOICE {  
    ipAddress-value  IpAddress,  
    counter-value    Counter32,  
    timeticks-value  TimeTicks,  
    arbitrary-value  Opaque,  
    big-counter-value Counter64,  
    unsigned-integer-value Unsigned32 }

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IpAddress ::= [APPLICATION 0] IMPLICIT OCTET STRING (SIZE (4))

Counter32 ::= [APPLICATION 1] IMPLICIT INTEGER (0..4294967295)

Unsigned32 ::= [APPLICATION 2] IMPLICIT INTEGER (0..4294967295)

Gauge32 ::= Unsigned32

TimeTicks ::= [APPLICATION 3] IMPLICIT INTEGER (0..4294967295)

Opaque ::= [APPLICATION 4] IMPLICIT OCTET STRING

Counter64 ::= [APPLICATION 6]  
            IMPLICIT INTEGER (0..18446744073709551615)

-- protocol data units

PDU ::= CHOICE {



```
get-request    GetRequest-PDU,  
get-next-request GetNextRequest-PDU,  
get-bulk-request GetBulkRequest-PDU,  
response      Response-PDU,  
set-request   SetRequest-PDU,  
inform-request InformRequest-PDU,  
snmpV2-trap  SNMPv2-Trap-PDU,  
report       Report-PDU }
```

-- PDUs

GetRequest-PDU ::= [0] IMPLICIT PDU

GetNextRequest-PDU ::= [1] IMPLICIT PDU

Response-PDU ::= [2] IMPLICIT PDU

SetRequest-PDU ::= [3] IMPLICIT PDU

-- [4] is obsolete

GetBulkRequest-PDU ::= [5] IMPLICIT BulkPDU

InformRequest-PDU ::= [6] IMPLICIT PDU

SNMPv2-Trap-PDU ::= [7] IMPLICIT PDU

-- Usage and precise semantics of Report-PDU are not defined  
-- in this document. Any SNMP administrative framework making  
-- use of this PDU must define its usage and semantics.

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Report-PDU ::= [8] IMPLICIT PDU

max-bindings INTEGER ::= 2147483647

PDU ::= SEQUENCE {  
    request-id INTEGER (-214783648..214783647),

    error-status            -- sometimes ignored

        INTEGER {

            noError(0),

```

    tooBig(1),
    noSuchName(2),    -- for proxy compatibility
    badValue(3),     -- for proxy compatibility
    readOnly(4),     -- for proxy compatibility
    genErr(5),
    noAccess(6),
    wrongType(7),
    wrongLength(8),
    wrongEncoding(9),
    wrongValue(10),
    noCreation(11),
    inconsistentValue(12),
    resourceUnavailable(13),
    commitFailed(14),
    undoFailed(15),
    authorizationError(16),
    notWritable(17),
    inconsistentName(18)
  },

  error-index          -- sometimes ignored
    INTEGER (0..max-bindings),

  variable-bindings    -- values are sometimes ignored
    VarBindList
}

BulkPDU ::=           -- must be identical in
  SEQUENCE {          -- structure to PDU
    request-id        INTEGER (-214783648..214783647),
    non-repeaters     INTEGER (0..max-bindings),
    max-repetitions   INTEGER (0..max-bindings),

    variable-bindings -- values are ignored
      VarBindList
  }

-- variable binding

```

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```

VarBind ::= SEQUENCE {
  name ObjectName,

```

```

CHOICE {
    value      ObjectSyntax,
    unspecified NULL, -- in retrieval requests

                -- exceptions in responses
    noSuchObject [0] IMPLICIT NULL,
    noSuchInstance [1] IMPLICIT NULL,
    endOfMibView [2] IMPLICIT NULL
}
}

-- variable-binding list

VarBindList ::= SEQUENCE (SIZE (0..max-bindings)) OF VarBind

END

```

## 4. Protocol Specification

### 4.1. Common Constructs

The value of the request-id field in a Response-PDU takes the value of the request-id field in the request PDU to which it is a response. By use of the request-id value, an application can distinguish the (potentially multiple) outstanding requests, and thereby correlate incoming responses with outstanding requests. In cases where an unreliable datagram service is used, the request-id also provides a simple means of identifying messages duplicated by the network. Use of the same request-id on a retransmission of a request allows the response to either the original transmission or the retransmission to satisfy the request. However, in order to calculate the round trip time for transmission and processing of a request-response transaction, the application needs to use a different request-id value on a retransmitted request. The latter strategy is recommended for use in the majority of situations.

A non-zero value of the error-status field in a Response-PDU is used to indicate that an error occurred to prevent the processing of the request. In these cases, a non-zero value of the Response-PDU's error-index field provides additional information by identifying which variable binding in the list caused the error. A variable binding is identified by its index value. The first variable binding in a variable-binding list is index one, the second is index two, etc.

SNMP limits OBJECT IDENTIFIER values to a maximum of 128 sub-identifiers, where each sub-identifier has a maximum value of  $2^{32}-1$ .

#### 4.2. PDU Processing

In the elements of procedure below, any field of a PDU which is not referenced by the relevant procedure is ignored by the receiving SNMP entity. However, all components of a PDU, including those whose values are ignored by the receiving SNMP entity, must have valid ASN.1 syntax and encoding. For example, some PDUs (e.g., the GetRequest-PDU) are concerned only with the name of a variable and not its value. In this case, the value portion of the variable binding is ignored by the receiving SNMP entity. The unSpecified value is defined for use as the value portion of such bindings.

On generating a management communication, the message "wrapper" to encapsulate the PDU is generated according to the "Elements of Procedure" of the administrative framework in use. The definition of "max-bindings" imposes an upper bound on the number of variable bindings. In practice, the size of a message is also limited by constraints on the maximum message size. A compliant implementation must support as many variable bindings in a PDU or BulkPDU as fit into the overall maximum message size limit of the SNMP engine, but no more than 2147483647 variable bindings.

On receiving a management communication, the "Elements of Procedure" of the administrative framework in use is followed, and if those procedures indicate that the operation contained within the message is to be performed locally, then those procedures also indicate the MIB view which is visible to the operation.

##### 4.2.1. The GetRequest-PDU

A GetRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a GetRequest-PDU, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below. Each variable binding is processed as follows:

- (1) If the variable binding's name exactly matches the name of a variable accessible by this request, then the variable binding's value field is set to the value of the named variable.

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- (2) Otherwise, if the variable binding's name does not have an OBJECT IDENTIFIER prefix which exactly matches the OBJECT IDENTIFIER prefix of any (potential) variable accessible by this request, then its value field is set to "noSuchObject".
- (3) Otherwise, the variable binding's value field is set to "noSuchInstance".

If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.

Otherwise, the value of the Response-PDU's error-status field is set to "noError", and the value of its error-index field is zero.

The generated Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetRequest-PDU.

Otherwise, an alternate Response-PDU is generated. This alternate Response-PDU is formatted with the same value in its request-id field as the received GetRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

#### 4.2.2. The GetNextRequest-PDU

A GetNextRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a GetNextRequest-PDU, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below. Each variable binding is processed as follows:

- (1) The variable is located which is in the lexicographically ordered list of the names of all variables which are

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accessible by this request and whose name is the first lexicographic successor of the variable binding's name in the incoming GetNextRequest-PDU. The corresponding variable binding's name and value fields in the Response-PDU are set to the name and value of the located variable.

- (2) If the requested variable binding's name does not lexicographically precede the name of any variable accessible by this request, i.e., there is no lexicographic successor, then the corresponding variable binding produced in the Response-PDU has its value field set to "endOfMibView", and its name field set to the variable binding's name in the request.

If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetNextRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.

Otherwise, the value of the Response-PDU's error-status field is set to "noError", and the value of its error-index field is zero.

The generated Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a

local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetNextRequest-PDU.

Otherwise, an alternate Response-PDU is generated. This alternate Response-PDU is formatted with the same values in its request-id field as the received GetNextRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetNextRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

#### 4.2.2.1. Example of Table Traversal

An important use of the GetNextRequest-PDU is the traversal of conceptual tables of information within a MIB. The semantics of this type of request, together with the method of identifying individual instances of objects in the MIB, provides access to related objects in the MIB as if they enjoyed a tabular organization.

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In the protocol exchange sketched below, an application retrieves the media-dependent physical address and the address-mapping type for each entry in the IP net-to-media Address Translation Table [RFC1213] of a particular network element. It also retrieves the value of sysUpTime [RFC3418], at which the mappings existed. Suppose that the command responder's IP net-to-media table has three entries:

Interface-Number	Network-Address	Physical-Address	Type
1	10.0.0.51	00:00:10:01:23:45	static
1	9.2.3.4	00:00:10:54:32:10	dynamic
2	10.0.0.15	00:00:10:98:76:54	dynamic

The SNMP entity supporting a command generator application begins by sending a GetNextRequest-PDU containing the indicated OBJECT IDENTIFIER values as the requested variable names:

GetNextRequest ( sysUpTime,

```
ipNetToMediaPhysAddress,  
ipNetToMediaType )
```

The SNMP entity supporting a command responder application responds with a Response-PDU:

```
Response (( sysUpTime.0 = "123456" ),  
          ( ipNetToMediaPhysAddress.1.9.2.3.4 = "000010543210" ),  
          ( ipNetToMediaType.1.9.2.3.4 = "dynamic" ))
```

The SNMP entity supporting the command generator application continues with:

```
GetNextRequest ( sysUpTime,  
                ipNetToMediaPhysAddress.1.9.2.3.4,  
                ipNetToMediaType.1.9.2.3.4 )
```

The SNMP entity supporting the command responder application responds with:

```
Response (( sysUpTime.0 = "123461" ),  
          ( ipNetToMediaPhysAddress.1.10.0.0.51 = "000010012345" ),  
          ( ipNetToMediaType.1.10.0.0.51 = "static" ))
```

The SNMP entity supporting the command generator application continues with:

```
GetNextRequest ( sysUpTime,  
                ipNetToMediaPhysAddress.1.10.0.0.51,  
                ipNetToMediaType.1.10.0.0.51 )
```

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The SNMP entity supporting the command responder application responds with:

```
Response (( sysUpTime.0 = "123466" ),  
          ( ipNetToMediaPhysAddress.2.10.0.0.15 = "000010987654" ),  
          ( ipNetToMediaType.2.10.0.0.15 = "dynamic" ))
```

The SNMP entity supporting the command generator application continues with:



```
GetNextRequest ( sysUpTime,  
                ipNetToMediaPhysAddress.2.10.0.0.15,  
                ipNetToMediaType.2.10.0.0.15 )
```

As there are no further entries in the table, the SNMP entity supporting the command responder application responds with the variables that are next in the lexicographical ordering of the accessible object names, for example:

```
Response (( sysUpTime.0 = "123471" ),  
          ( ipNetToMediaNetAddress.1.9.2.3.4 = "9.2.3.4" ),  
          ( ipRoutingDiscards.0 = "2" ))
```

Note how, having reached the end of the column for `ipNetToMediaPhysAddress`, the second variable binding from the command responder application has now "wrapped" to the first row in the next column. Furthermore, note how, having reached the end of the `ipNetToMediaTable` for the third variable binding, the command responder application has responded with the next available object, which is outside that table. This response signals the end of the table to the command generator application.

#### 4.2.3. The GetBulkRequest-PDU

A `GetBulkRequest-PDU` is generated and transmitted at the request of an application. The purpose of the `GetBulkRequest-PDU` is to request the transfer of a potentially large amount of data, including, but not limited to, the efficient and rapid retrieval of large tables.

Upon receipt of a `GetBulkRequest-PDU`, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a `Response-PDU` with its request-id field having the same value as in the request.

For the `GetBulkRequest-PDU` type, the successful processing of each variable binding in the request generates zero or more variable bindings in the `Response-PDU`. That is, the one-to-one mapping between the variable bindings of the `GetRequest-PDU`, `GetNextRequest-`

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`PDU`, and `SetRequest-PDU` types and the resultant `Response-PDUs` does not apply for the mapping between the variable bindings of a

GetBulkRequest-PDU and the resultant Response-PDU.

The values of the non-repeaters and max-repetitions fields in the request specify the processing requested. One variable binding in the Response-PDU is requested for the first N variable bindings in the request and M variable bindings are requested for each of the R remaining variable bindings in the request. Consequently, the total number of requested variable bindings communicated by the request is given by  $N + (M * R)$ , where N is the minimum of: a) the value of the non-repeaters field in the request, and b) the number of variable bindings in the request; M is the value of the max-repetitions field in the request; and R is the maximum of: a) number of variable bindings in the request - N, and b) zero.

The receiving SNMP entity produces a Response-PDU with up to the total number of requested variable bindings communicated by the request. The request-id shall have the same value as the received GetBulkRequest-PDU.

If N is greater than zero, the first through the (N)-th variable bindings of the Response-PDU are each produced as follows:

- (1) The variable is located which is in the lexicographically ordered list of the names of all variables which are accessible by this request and whose name is the first lexicographic successor of the variable binding's name in the incoming GetBulkRequest-PDU. The corresponding variable binding's name and value fields in the Response-PDU are set to the name and value of the located variable.
- (2) If the requested variable binding's name does not lexicographically precede the name of any variable accessible by this request, i.e., there is no lexicographic successor, then the corresponding variable binding produced in the Response-PDU has its value field set to "endOfMibView", and its name field set to the variable binding's name in the request.

If M and R are non-zero, the (N + 1)-th and subsequent variable bindings of the Response-PDU are each produced in a similar manner. For each iteration i, such that i is greater than zero and less than or equal to M, and for each repeated variable, r, such that r is greater than zero and less than or equal to R, the  $(N + (i-1) * R + r)$ -th variable binding of the Response-PDU is produced as follows:

- (1) The variable which is in the lexicographically ordered list of the names of all variables which are accessible by this request and whose name is the (i)-th lexicographic successor of the (N + r)-th variable binding's name in the incoming GetBulkRequest-PDU is located and the variable binding's name and value fields are set to the name and value of the located variable.
- (2) If there is no (i)-th lexicographic successor, then the corresponding variable binding produced in the Response-PDU has its value field set to "endOfMibView", and its name field set to either the last lexicographic successor, or if there are no lexicographic successors, to the (N + r)-th variable binding's name in the request.

While the maximum number of variable bindings in the Response-PDU is bounded by  $N + (M * R)$ , the response may be generated with a lesser number of variable bindings (possibly zero) for either of three reasons.

- (1) If the size of the message encapsulating the Response-PDU containing the requested number of variable bindings would be greater than either a local constraint or the maximum message size of the originator, then the response is generated with a lesser number of variable bindings. This lesser number is the ordered set of variable bindings with some of the variable bindings at the end of the set removed, such that the size of the message encapsulating the Response-PDU is approximately equal to but no greater than either a local constraint or the maximum message size of the originator. Note that the number of variable bindings removed has no relationship to the values of N, M, or R.
- (2) The response may also be generated with a lesser number of variable bindings if for some value of iteration i, such that i is greater than zero and less than or equal to M, that all of the generated variable bindings have the value field set to "endOfMibView". In this case, the variable bindings may be truncated after the (N + (i \* R))-th variable binding.
- (3) In the event that the processing of a request with many repetitions requires a significantly greater amount of

processing time than a normal request, then a command responder application may terminate the request with less than the full number of repetitions, providing at least one repetition is completed.

If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetBulkRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the variable binding in the original request which corresponds to the failed variable binding.

Otherwise, the value of the Response-PDU's error-status field is set to "noError", and the value of its error-index field to zero.

The generated Response-PDU (possibly with an empty variable-bindings field) is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetBulkRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

#### 4.2.3.1. Another Example of Table Traversal

This example demonstrates how the GetBulkRequest-PDU can be used as an alternative to the GetNextRequest-PDU. The same traversal of the IP net-to-media table as shown in Section 4.2.2.1 is achieved with fewer exchanges.

The SNMP entity supporting the command generator application begins by sending a GetBulkRequest-PDU with the modest max-repetitions value of 2, and containing the indicated OBJECT IDENTIFIER values as the requested variable names:

```
GetBulkRequest [ non-repeaters = 1, max-repetitions = 2 ]
    ( sysUpTime,
      ipNetToMediaPhysAddress,
```

ipNetToMediaType )

The SNMP entity supporting the command responder application responds with a Response-PDU:

```
Response (( sysUpTime.0 = "123456" ),
  ( ipNetToMediaPhysAddress.1.9.2.3.4 = "000010543210" ),
  ( ipNetToMediaType.1.9.2.3.4 = "dynamic" ),
  ( ipNetToMediaPhysAddress.1.10.0.0.51 = "000010012345" ),
  ( ipNetToMediaType.1.10.0.0.51 = "static" ))
```

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The SNMP entity supporting the command generator application continues with:

```
GetBulkRequest [ non-repeaters = 1, max-repetitions = 2 ]
  ( sysUpTime,
    ipNetToMediaPhysAddress.1.10.0.0.51,
    ipNetToMediaType.1.10.0.0.51 )
```

The SNMP entity supporting the command responder application responds with:

```
Response (( sysUpTime.0 = "123466" ),
  ( ipNetToMediaPhysAddress.2.10.0.0.15 = "000010987654" ),
  ( ipNetToMediaType.2.10.0.0.15 = "dynamic" ),
  ( ipNetToMediaNetAddress.1.9.2.3.4 = "9.2.3.4" ),
  ( ipRoutingDiscards.0 = "2" ))
```

Note how, as in the first example, the variable bindings in the response indicate that the end of the table has been reached. The fourth variable binding does so by returning information from the next available column; the fifth variable binding does so by returning information from the first available object lexicographically following the table. This response signals the end of the table to the command generator application.

#### 4.2.4. The Response-PDU

The Response-PDU is generated by an SNMP entity only upon receipt of a GetRequest-PDU, GetNextRequest-PDU, GetBulkRequest-PDU, SetRequest-PDU, or InformRequest-PDU, as described elsewhere in this document.

If the error-status field of the Response-PDU is non-zero, the value fields of the variable bindings in the variable binding list are ignored.

If both the error-status field and the error-index field of the Response-PDU are non-zero, then the value of the error-index field is the index of the variable binding (in the variable-binding list of the corresponding request) for which the request failed. The first variable binding in a request's variable-binding list is index one, the second is index two, etc.

A compliant SNMP entity supporting a command generator application must be able to properly receive and handle a Response-PDU with an error-status field equal to "noSuchName", "badValue", or "readOnly". (See sections 1.3 and 4.3 of [RFC2576].)

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Upon receipt of a Response-PDU, the receiving SNMP entity presents its contents to the application which generated the request with the same request-id value. For more details, see [RFC3412].

#### 4.2.5. The SetRequest-PDU

A SetRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a SetRequest-PDU, the receiving SNMP entity determines the size of a message encapsulating a Response-PDU having the same values in its request-id and variable-bindings fields as the received SetRequest-PDU, and the largest possible sizes of the error-status and error-index fields. If the determined message size is greater than either a local constraint or the maximum message size of the originator, then an alternate Response-PDU is generated, transmitted to the originator of the SetRequest-PDU, and processing of the SetRequest-PDU terminates immediately thereafter. This

alternate Response-PDU is formatted with the same values in its request-id field as the received SetRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the SetRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded. Regardless, processing of the SetRequest-PDU terminates.

Otherwise, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below.

The variable bindings are conceptually processed as a two phase operation. In the first phase, each variable binding is validated; if all validations are successful, then each variable is altered in the second phase. Of course, implementors are at liberty to implement either the first, or second, or both, of these conceptual phases as multiple implementation phases. Indeed, such multiple implementation phases may be necessary in some cases to ensure consistency.

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The following validations are performed in the first phase on each variable binding until they are all successful, or until one fails:

- (1) If the variable binding's name specifies an existing or non-existent variable to which this request is/would be denied access because it is/would not be in the appropriate MIB view, then the value of the Response-PDU's error-status field is set to "noAccess", and the value of its error-index field is set to the index of the failed variable binding.

- (2) Otherwise, if there are no variables which share the same OBJECT IDENTIFIER prefix as the variable binding's name, and which are able to be created or modified no matter what new value is specified, then the value of the Response-PDU's error-status field is set to "notWritable", and the value of its error-index field is set to the index of the failed variable binding.
- (3) Otherwise, if the variable binding's value field specifies, according to the ASN.1 language, a type which is inconsistent with that required for all variables which share the same OBJECT IDENTIFIER prefix as the variable binding's name, then the value of the Response-PDU's error-status field is set to "wrongType", and the value of its error-index field is set to the index of the failed variable binding.
- (4) Otherwise, if the variable binding's value field specifies, according to the ASN.1 language, a length which is inconsistent with that required for all variables which share the same OBJECT IDENTIFIER prefix as the variable binding's name, then the value of the Response-PDU's error-status field is set to "wrongLength", and the value of its error-index field is set to the index of the failed variable binding.
- (5) Otherwise, if the variable binding's value field contains an ASN.1 encoding which is inconsistent with that field's ASN.1 tag, then the value of the Response-PDU's error-status field is set to "wrongEncoding", and the value of its error-index field is set to the index of the failed variable binding. (Note that not all implementation strategies will generate this error.)
- (6) Otherwise, if the variable binding's value field specifies a value which could under no circumstances be assigned to the variable, then the value of the Response-PDU's error-status field is set to "wrongValue", and the value of its error-index field is set to the index of the failed variable binding.

- (7) Otherwise, if the variable binding's name specifies a variable which does not exist and could not ever be created (even though



some variables sharing the same OBJECT IDENTIFIER prefix might under some circumstances be able to be created), then the value of the Response-PDU's error-status field is set to "noCreation", and the value of its error-index field is set to the index of the failed variable binding.

- (8) Otherwise, if the variable binding's name specifies a variable which does not exist but can not be created under the present circumstances (even though it could be created under other circumstances), then the value of the Response-PDU's error-status field is set to "inconsistentName", and the value of its error-index field is set to the index of the failed variable binding.
- (9) Otherwise, if the variable binding's name specifies a variable which exists but can not be modified no matter what new value is specified, then the value of the Response-PDU's error-status field is set to "notWritable", and the value of its error-index field is set to the index of the failed variable binding.
- (10) Otherwise, if the variable binding's value field specifies a value that could under other circumstances be held by the variable, but is presently inconsistent or otherwise unable to be assigned to the variable, then the value of the Response-PDU's error-status field is set to "inconsistentValue", and the value of its error-index field is set to the index of the failed variable binding.
- (11) When, during the above steps, the assignment of the value specified by the variable binding's value field to the specified variable requires the allocation of a resource which is presently unavailable, then the value of the Response-PDU's error-status field is set to "resourceUnavailable", and the value of its error-index field is set to the index of the failed variable binding.
- (12) If the processing of the variable binding fails for a reason other than listed above, then the value of the Response-PDU's error-status field is set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.
- (13) Otherwise, the validation of the variable binding succeeds.

At the end of the first phase, if the validation of all variable bindings succeeded, then the value of the Response-PDU's error-status field is set to "noError" and the value of its error-index field is zero, and processing continues as follows.

For each variable binding in the request, the named variable is created if necessary, and the specified value is assigned to it. Each of these variable assignments occurs as if simultaneously with respect to all other assignments specified in the same request. However, if the same variable is named more than once in a single request, with different associated values, then the actual assignment made to that variable is implementation-specific.

If any of these assignments fail (even after all the previous validations), then all other assignments are undone, and the Response-PDU is modified to have the value of its error-status field set to "commitFailed", and the value of its error-index field set to the index of the failed variable binding.

If and only if it is not possible to undo all the assignments, then the Response-PDU is modified to have the value of its error-status field set to "undoFailed", and the value of its error-index field is set to zero. Note that implementations are strongly encouraged to take all possible measures to avoid use of either "commitFailed" or "undoFailed" - these two error-status codes are not to be taken as license to take the easy way out in an implementation.

Finally, the generated Response-PDU is encapsulated into a message, and transmitted to the originator of the SetRequest-PDU.

#### 4.2.6. The SNMPv2-Trap-PDU

An SNMPv2-Trap-PDU is generated and transmitted by an SNMP entity on behalf of a notification originator application. The SNMPv2-Trap-PDU is often used to notify a notification receiver application at a logically remote SNMP entity that an event has occurred or that a condition is present. There is no confirmation associated with this notification delivery mechanism.

The destination(s) to which an SNMPv2-Trap-PDU is sent is determined in an implementation-dependent fashion by the SNMP entity. The first two variable bindings in the variable binding list of an SNMPv2-

Trap-PDU are sysUpTime.0 [RFC3418] and snmpTrapOID.0 [RFC3418] respectively. If the OBJECTS clause is present in the invocation of the corresponding NOTIFICATION-TYPE macro, then each corresponding variable, as instantiated by this notification, is copied, in order,

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to the variable-bindings field. If any additional variables are being included (at the option of the generating SNMP entity), then each is copied to the variable-bindings field.

#### 4.2.7. The InformRequest-PDU

An InformRequest-PDU is generated and transmitted by an SNMP entity on behalf of a notification originator application. The InformRequest-PDU is often used to notify a notification receiver application that an event has occurred or that a condition is present. This is a confirmed notification delivery mechanism, although there is, of course, no guarantee of delivery.

The destination(s) to which an InformRequest-PDU is sent is specified by the notification originator application. The first two variable bindings in the variable binding list of an InformRequest-PDU are sysUpTime.0 [RFC3418] and snmpTrapOID.0 [RFC3418] respectively. If the OBJECTS clause is present in the invocation of the corresponding NOTIFICATION-TYPE macro, then each corresponding variable, as instantiated by this notification, is copied, in order, to the variable-bindings field. If any additional variables are being included (at the option of the generating SNMP entity), then each is copied to the variable-bindings field.

Upon receipt of an InformRequest-PDU, the receiving SNMP entity determines the size of a message encapsulating a Response-PDU with the same values in its request-id, error-status, error-index and variable-bindings fields as the received InformRequest-PDU. If the determined message size is greater than either a local constraint or the maximum message size of the originator, then an alternate Response-PDU is generated, transmitted to the originator of the InformRequest-PDU, and processing of the InformRequest-PDU terminates immediately thereafter. This alternate Response-PDU is formatted with the same values in its request-id field as the received

InformRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the InformRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded. Regardless, processing of the InformRequest-PDU terminates.

Otherwise, the receiving SNMP entity:

- (1) presents its contents to the appropriate application;

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- (2) generates a Response-PDU with the same values in its request-id and variable-bindings fields as the received InformRequest-PDU, with the value of its error-status field set to "noError" and the value of its error-index field set to zero; and
- (3) transmits the generated Response-PDU to the originator of the InformRequest-PDU.

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Glenn Waters  
Bert Wijnen

## 7. Security Considerations

The protocol defined in this document by itself does not provide a secure environment. Even if the network itself is secure (for example by using IPSec), there is no control as to who on the secure network is allowed access to management information.

It is recommended that the implementors consider the security features as provided by the SNMPv3 framework. Specifically, the use of the User-based Security Model STD 62, RFC 3414 [RFC3414] and the View-based Access Control Model STD 62, RFC 3415 [RFC3415] is recommended.

It is then a customer/user responsibility to ensure that the SNMP entity is properly configured so that:

- only those principals (users) having legitimate rights can access or modify the values of any MIB objects supported by that entity;
- the occurrence of particular events on the entity will be communicated appropriately;
- the entity responds appropriately and with due credence to events and information that have been communicated to it.

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## 9. Changes from RFC 1905

These are the changes from RFC 1905:

- Corrected spelling error in copyright statement;

- Updated copyright date;
- Updated with new editor's name and contact information;
- Added notice on intellectual property;

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- Cosmetic fixes to layout and typography;
- Added table of contents;
- Title changed;
- Updated document headers and footers;
- Deleted the old clause 2.3, entitled "Access to Management Information";
- Changed the way in which request-id was defined, though with the same ultimate syntax and semantics, to avoid coupling with SMI. This does not affect the protocol in any way;
- Replaced the word "exception" with the word "error" in the old clause 4.1. This does not affect the protocol in any way;
- Deleted the first two paragraphs of the old clause 4.2;
- Clarified the maximum number of variable bindings that an implementation must support in a PDU. This does not affect the protocol in any way;
- Replaced occurrences of "SNMPv2 application" with "application";
- Deleted three sentences in old clause 4.2.3 describing the handling of an impossible situation. This does not affect the protocol in any way;
- Clarified the use of the SNMPv2-Trap-Pdu in the old clause 4.2.6. This does not affect the protocol in any way;

- Aligned description of the use of the InformRequest-Pdu in old clause 4.2.7 with the architecture. This does not affect the protocol in any way;
- Updated references;
- Re-wrote introduction clause;
- Replaced manager/agent/SNMPv2 entity terminology with terminology from RFC 2571. This does not affect the protocol in any way;
- Eliminated IMPORTS from the SMI, replaced with equivalent in-line ASN.1. This does not affect the protocol in any way;

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- Added notes calling attention to two different manifestations of reaching the end of a table in the table walk examples;
- Added content to security considerations clause;
- Updated ASN.1 comment on use of Report-PDU. This does not affect the protocol in any way;
- Updated acknowledgments section;
- Included information on handling of BITS;
- Deleted spurious comma in ASN.1 definition of PDUs;
- Added abstract;
- Made handling of additional variable bindings in informs consistent with that for traps. This was a correction of an editorial oversight, and reflects implementation practice;
- Added reference to RFC 2914.

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This version of this MIB module is part of RFC 5591;  
see the RFC itself for full legal notices."

REVISION "200906090000Z"  
DESCRIPTION "The initial version, published in RFC 5591."  
 ::= { mib-2 190 }

-----  
-- subtrees in the SNMP-TSM-MIB  
-----

snmpTsmNotifications OBJECT IDENTIFIER ::= { snmpTsmMIB 0 }  
snmpTsmMIBObjects OBJECT IDENTIFIER ::= { snmpTsmMIB 1 }  
snmpTsmConformance OBJECT IDENTIFIER ::= { snmpTsmMIB 2 }

-----  
-- Objects  
-----

-- Statistics for the Transport Security Model

snmpTsmStats OBJECT IDENTIFIER ::= { snmpTsmMIBObjects 1 }

snmpTsmInvalidCaches OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION "The number of incoming messages dropped because the

tmStateReference referred to an invalid cache.

"

::= { snmpTsmStats 1 }

snmpTsmInadequateSecurityLevels OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION "The number of incoming messages dropped because

the securityLevel asserted by the Transport Model was

less than the securityLevel requested by the

application.

"

::= { snmpTsmStats 2 }

snmpTsmUnknownPrefixes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION "The number of messages dropped because

snmpTsmConfigurationUsePrefix was set to true and

there is no known prefix for the specified transport

domain.

"

::= { snmpTsmStats 3 }

snmpTsmInvalidPrefixes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION "The number of messages dropped because

the securityName associated with an outgoing message

did not contain a valid transport domain prefix.

"

::= { snmpTsmStats 4 }

-----

-- Configuration

-----

-- Configuration for the Transport Security Model

snmpTsmConfiguration OBJECT IDENTIFIER ::= { snmpTsmMIBObjects 2 }

snmpTsmConfigurationUsePrefix OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION "If this object is set to true, then securityNames  
passing to and from the application are expected to  
contain a transport-domain-specific prefix. If this  
object is set to true, then a domain-specific prefix  
will be added by the TSM to the securityName for  
incoming messages and removed from the securityName  
when processing outgoing messages. Transport domains  
and prefixes are maintained in a registry by IANA.  
This object SHOULD persist across system reboots.

"

DEFVAL { false }

::= { snmpTsmConfiguration 1 }

-----

-- snmpTsmMIB - Conformance Information

-----

snmpTsmCompliances OBJECT IDENTIFIER ::= { snmpTsmConformance 1 }

snmpTsmGroups OBJECT IDENTIFIER ::= { snmpTsmConformance 2 }

-----

-- Compliance statements

-----

snmpTsmCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION "The compliance statement for SNMP engines that support  
the SNMP-TSM-MIB.

"

MODULE

MANDATORY-GROUPS { snmpTsmGroup }

::= { snmpTsmCompliances 1 }

-----

-- Units of conformance

-----



```

snmpTsmGroup OBJECT-GROUP
OBJECTS {
    snmpTsmInvalidCaches,
    snmpTsmInadequateSecurityLevels,
    snmpTsmUnknownPrefixes,
    snmpTsmInvalidPrefixes,
    snmpTsmConfigurationUsePrefix
}
STATUS    current
DESCRIPTION "A collection of objects for maintaining
            information of an SNMP engine that implements

            the SNMP Transport Security Model.
            "
 ::= { snmpTsmGroups 2 }

```

END

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The End

## 2.232 Net-SSLeay 1.55

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from /lib/Net/SSLeay.pm

```
# Net::SSLeay.pm - Perl module for using Eric Young's implementation of SSL
#
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#
# $Id: SSLeay.pm 378 2013-06-07 22:29:53Z mikem-guest $
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```

```
<snip>
from META.yml
```

```
<snip>
```

```
license: SSLeay
```

```
<snip>
from ppport.h
```

```
<snip>
```

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from README

<snip>

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\*

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<snip>

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## 2.233 Net-Telnet 3.03

### 2.233.1 Available under license :

from /lib/Net/Telnet.pm

```
package Net::Telnet;

## Copyright 1997, 2000, 2002 Jay Rogers. All rights reserved.
## This program is free software; you can redistribute it and/or
## modify it under the same terms as Perl itself.

## See user documentation at the end of this file. Search for =head

use strict;
require 5.002;

## Module export.
use vars qw(@EXPORT_OK);
@EXPORT_OK = qw(TELNET_IAC TELNET_DONT TELNET_DO TELNET_WONT TELNET_WILL
TELNET_SB TELNET_GA TELNET_EL TELNET_EC TELNET_AYT TELNET_AO
TELNET_IP TELNET_BREAK TELNET_DM TELNET_NOP TELNET_SE
TELNET_EOR TELNET_ABORT TELNET_SUSP TELNET_EOF TELNET_SYNCH
TELOPT_BINARY TELOPT_ECHO TELOPT_RCP TELOPT_SGA TELOPT_NAMS
TELOPT_STATUS TELOPT_TM TELOPT_RCTE TELOPT_NAOL TELOPT_NAOP
TELOPT_NAOCRD TELOPT_NAOHTS TELOPT_NAOHTD TELOPT_NAOFFD
TELOPT_NAOVTS TELOPT_NAOVTD TELOPT_NAOLFD TELOPT_XASCII
TELOPT_LOGOUT TELOPT_BM TELOPT_DET TELOPT_SUPDUP
TELOPT_SUPDUPOUTPUT TELOPT_SNDLOC TELOPT_TTYPE TELOPT_EOR
TELOPT_TUID TELOPT_OUTMRK TELOPT_TTYLOC TELOPT_3270REGIME
TELOPT_X3PAD TELOPT_NAWS TELOPT_TSPEED TELOPT_LFLOW
TELOPT_LINEMODE TELOPT_XDISPLOC TELOPT_OLD_ENVIRON
TELOPT_AUTHENTICATION TELOPT_ENCRYPT TELOPT_NEW_ENVIRON
TELOPT_EXOPL);

## Module import.
use Exporter ();
use Socket qw(AF_INET SOCK_STREAM inet_aton sockaddr_in);
use Symbol qw(qualify);

## Base classes.
use vars qw(@ISA);
@ISA = qw(Exporter);
if (&_io_socket_include) { # successfully required module IO::Socket
    push @ISA, "IO::Socket::INET";
}
else { # perl version < 5.004
```

```

require FileHandle;
push @ISA, "FileHandle";
}

## Global variables.
use vars qw($VERSION @Telopts);
$VERSION = "3.03";
@Telopts = ("BINARY", "ECHO", "RCP", "SUPPRESS GO AHEAD", "NAME", "STATUS",
"TIMING MARK", "RCTE", "NAOL", "NAOP", "NAOCD", "NAOHTS",
"NAOHTD", "NAOFFD", "NAOVTS", "NAOVD", "NAOLFD", "EXTEND ASCII",
"LOGOUT", "BYTE MACRO", "DATA ENTRY TERMINAL", "SUPDUP",
"SUPDUP OUTPUT", "SEND LOCATION", "TERMINAL TYPE", "END OF RECORD",
"TACACS UID", "OUTPUT MARKING", "TTYLOC", "3270 REGIME", "X.3 PAD",
"NAWS", "TSPEED", "LFLOW", "LINEMODE", "XDISPLOC", "OLD-ENVIRON",
"AUTHENTICATION", "ENCRYPT", "NEW-ENVIRON");

```

```
##### Public Methods #####
```

```

sub new {
    my ($class) = @_ ;
    my (
    $errmode,
    $fh_open,
    $host,
    $self,
    %args,
    );
    local $_;

    ## Create a new object with defaults.
    $self = $class->SUPER::new;
    *$self->{net_telnet} = {
    bin_mode    => 0,
    blksize    => &_optimal_blksize(),
    buf        => "",
    cmd_prompt  => '/[\\$%#>] $/',
    cmd_rm_mode => "auto",
    dumplog    => "",
    eofile     => 1,
    errormode  => "die",
    errormsg   => "",
    fdmask     => "",
    host       => "localhost",
    inputlog   => "",
    last_line  => "",
    last_prompt => "",
    }
}

```

```

maxbufsize => 1_048_576,
num_wrote => 0,
ofs => "",
opened => "",
opt_cback => "",
opt_log => "",
opts => {},
ors => "\n",
outputlog => "",
pending_errormsg => "",
port => 23,
pushback_buf => "",
rs => "\n",
subopt_cback => "",
telnet_mode => 1,
time_out => 10,
timedout => "",
unsent_opts => "",
};

## Indicate that we'll accept an offer from remote side for it to echo
## and suppress go aheads.
&_opt_accept($self,
{ option => &TELOPT_ECHO,
  is_remote => 1,
  is_enable => 1 },
{ option => &TELOPT_SGA,
  is_remote => 1,
  is_enable => 1 },
);

## Parse the args.
if (@_ == 2) { # one positional arg given
$host = $_[1];
}
elseif (@_ > 2) { # named args given
## Get the named args.
(undef, %args) = @_;

## Parse all other named args.
foreach (keys %args) {
  if (/^-?binmode$/i) {
$self->binmode($args{$_});
}
  elseif (/^-?cmd_remove_mode$/i) {
$self->cmd_remove_mode($args{$_});
}
  elseif (/^-?dump_log$/i) {

```



```

$self->dump_log($args{$_});
}
elseif (/^-?errmode$/i) {
$errmode = $args{$_};
}
elseif (/^-?fhopen$/i) {
$fh_open = $args{$_};
}
elseif (/^-?host$/i) {
$host = $args{$_};
}
elseif (/^-?input_log$/i) {
$self->input_log($args{$_});
}
elseif (/^-?input_record_separator$/i or /^-?rs$/i) {
$self->input_record_separator($args{$_});
}
elseif (/^-?option_log$/i) {
$self->option_log($args{$_});
}
elseif (/^-?output_log$/i) {
$self->output_log($args{$_});
}
elseif (/^-?output_record_separator$/i or /^-?ors$/i) {
$self->output_record_separator($args{$_});
}
elseif (/^-?port$/i) {
$self->port($args{$_});
}
elseif (/^-?prompt$/i) {
$self->prompt($args{$_});
}
elseif (/^-?telnetmode$/i) {
$self->telnetmode($args{$_});
}
elseif (/^-?timeout$/i) {
$self->timeout($args{$_});
}
else {
&_croak($self, "bad named parameter \"$_\" given " .
"to " . ref($self) . "::new()");
}
}
}

if (defined $errmode) { # user wants to set errmode
$self->errmode($errmode);
}

```

```

    if (defined $fh_open) { # user wants us to attach to existing filehandle
$self->fhopen($fh_open)
        or return;
    }
    elsif (defined $host) { # user wants us to open a connection to host
$self->host($host);
$self->open
        or return;
    }

    $self;
} # end sub new

```

```

sub DESTROY {
} # end sub DESTROY

```

```

sub binmode {
    my ($self, $mode) = @_;
    my (
$prev,
$s,
);

    $s = *$self->{net_telnet};
    $prev = $s->{bin_mode};

    if (@_ >= 2) {
unless (defined $mode) {
        $mode = 0;
    }

    $s->{bin_mode} = $mode;
    }

    $prev;
} # end sub binmode

```

```

sub break {
    my ($self) = @_;
    my $s = *$self->{net_telnet};
    my $break_cmd = "\xff\x3";

    $s->{timeout} = "";

```

```
    &_put($self, \$break_cmd, "break");  
} # end sub break
```

```
sub buffer {  
    my ($self) = @_;  
    my $s = *$self->{net_telnet};  
  
    \$s->{buf};  
} # end sub buffer
```

```
sub buffer_empty {  
    my ($self) = @_;  
    my (  
    $buffer,  
    );  
  
    $buffer = $self->buffer;  
    $$buffer = "";  
} # end sub buffer_empty
```

```
sub close {  
    my ($self) = @_;  
    my $s = *$self->{net_telnet};  
  
    $s->{eofile} = 1;  
    $s->{opened} = "";  
    close $self  
    if defined fileno($self);  
  
    1;  
} # end sub close
```

```
sub cmd {  
    my ($self, @args) = @_;  
    my (  
    $cmd_remove_mode,  
    $errmode,  
    $firstpos,  
    $last_prompt,  
    $lastpos,  
    $lines,  
    $ors,  
    $output,  
    $output_ref,
```

```

$prompt,
$remove_echo,
$rs,
$rs_len,
$s,
$telopt_echo,
$timeout,
%args,
);
my $cmd = "";
local $_;

## Init.
$self->timed_out("");
$self->last_prompt("");
$s = *$self->{net_telnet};
$output = [];
$cmd_remove_mode = $self->cmd_remove_mode;
$errmode = $self->errmode;
$sors = $self->output_record_separator;
$prompt = $self->prompt;
$rs = $self->input_record_separator;
$timeout = $self->timeout;

## Parse args.
if (@_ == 2) { # one positional arg given
$cmd = $_[1];
}
elseif (@_ > 2) { # named args given
## Get the named args.
(undef, %args) = @_;

## Parse the named args.
foreach (keys %args) {
    if (/^-?cmd_remove/i) {
$cmd_remove_mode = &_parse_cmd_remove_mode($self, $args{$_});
    }
    elseif (/^-?errmode$/i) {
$errmode = &_parse_errmode($self, $args{$_});
    }
    elseif (/^-?input_record_separator$/i or /^-?rs$/i) {
$rs = &_parse_input_record_separator($self, $args{$_});
    }
    elseif (/^-?output$/i) {
$output_ref = $args{$_};
if (defined($output_ref) and ref($output_ref) eq "ARRAY") {
    $output = $output_ref;
}
}
}
}

```

```

    }
    elsif (/^-?output_record_separator$/i or /^-?ors$/i) {
$ors = $self->output_record_separator($args{$_});
    }
    elsif (/^-?prompt$/i) {
$prompt = &_amp;_parse_prompt($self, $args{$_});
    }
    elsif (/^-?string$/i) {
$cmd = $args{$_};
    }
    elsif (/^-?timeout$/i) {
$timeout = &_amp;_parse_timeout($self, $args{$_});
    }
    else {
&_croak($self, "bad named parameter \"$_\" given " .
"to " . ref($self) . "::cmd()");
    }
}
}

## Override some user settings.
local $s->{errormode} = "return";
local $s->{time_out} = &_amp;_endtime($timeout);
$self->errmsg("");

## Send command and wait for the prompt.
$self->put($cmd . $ors)
and ($lines, $last_prompt) = $self->waitfor($prompt);

## Check for failure.
$s->{errormode} = $errmode;
return $self->error("command timed-out") if $self->timed_out;
return $self->error($self->errmsg) if $self->errmsg ne "";

## Save the most recently matched prompt.
$self->last_prompt($last_prompt);

## Split lines into an array, keeping record separator at end of line.
$firstpos = 0;
$rs_len = length $rs;
while (($lastpos = index($lines, $rs, $firstpos)) > -1) {
push(@$output,
    substr($lines, $firstpos, $lastpos - $firstpos + $rs_len));
$firstpos = $lastpos + $rs_len;
}

if ($firstpos < length $lines) {
push @$output, substr($lines, $firstpos);
}

```

```

}

## Determine if we should remove the first line of output based
## on the assumption that it's an echoed back command.
if ($cmd_remove_mode eq "auto") {
## See if remote side told us they'd echo.
$telopt_echo = $self->option_state(&TELOPT_ECHO);
$remove_echo = $telopt_echo->{remote_enabled};
}
else { # user explicitly told us how many lines to remove.
$remove_echo = $cmd_remove_mode;
}

## Get rid of possible echo back command.
while ($remove_echo--) {
shift @$output;
}

## Ensure at least a null string when there's no command output - so
## "true" is returned in a list context.
unless (@$output) {
@$output = ("");
}

## Return command output via named arg, if requested.
if (defined $output_ref) {
if (ref($output_ref) eq "SCALAR") {
$$output_ref = join "", @$output;
}
elsif (ref($output_ref) eq "HASH") {
%$output_ref = @$output;
}
}

wantarray ? @$output : 1;
} # end sub cmd

sub cmd_remove_mode {
my ($self, $mode) = @_;
my (
$prev,
$s,
);

$s = *$self->{net_telnet};
$prev = $s->{cmd_rm_mode};

```

```

    if (@_ >= 2) {
    $s->{cmd_rm_mode} = &_amp;_parse_cmd_remove_mode($self, $mode);
    }

    $prev;
} # end sub cmd_remove_mode

```

```

sub dump_log {
    my ($self, $name) = @_;
    my (
    $fh,
    $s,
    );

    $s = *$self->{net_telnet};
    $fh = $s->{dumplog};

    if (@_ >= 2) {
    unless (defined $name) {
        $name = "";
    }

    $fh = &_amp;_fname_to_handle($self, $name)
        or return;
    $s->{dumplog} = $fh;
    }

    $fh;
} # end sub dump_log

```

```

sub eof {
    my ($self) = @_;

    *$self->{net_telnet}{eofile};
} # end sub eof

```

```

sub errmode {
    my ($self, $mode) = @_;
    my (
    $prev,
    $s,
    );

    $s = *$self->{net_telnet};
    $prev = $s->{errormode};

```

```

    if (@_ >= 2) {
    $s->{errormode} = &_amp;_parse_errmode($self, $mode);
    }

```

```

    $prev;
} # end sub errmode

```

```

sub errmsg {
    my ($self, @errmsgs) = @_;
    my (
    $prev,
    $s,
    );

    $s = *$self->{net_telnet};
    $prev = $s->{errormsg};

    if (@_ >= 2) {
    $s->{errormsg} = join "", @errmsgs;
    }

```

```

    $prev;
} # end sub errmsg

```

```

sub error {
    my ($self, @errmsg) = @_;
    my (
    $errmsg,
    $func,
    $mode,
    $s,
    @args,
    );
    local $_;

    $s = *$self->{net_telnet};

    if (@_ >= 2) {
    ## Put error message in the object.
    $errmsg = join "", @errmsg;
    $s->{errormsg} = $errmsg;

    ## Do the error action as described by error mode.
    $mode = $s->{errormode};
    if (ref($mode) eq "CODE") {

```



```

    &$mode($errmsg);
    return;
}
elsif (ref($mode) eq "ARRAY") {
    ($func, @args) = @$mode;
    &$func(@args);
    return;
}
elsif ($mode =~ /^return$/i) {
    return;
}
else { # die
    if ($errmsg =~ /\n$/) {
        die $errmsg;
    }
    else {
        ## Die and append caller's line number to message.
        &_croak($self, $errmsg);
    }
}
}
else {
return $s->{errmsg} ne "";
}
} # end sub error

sub fhopen {
    my ($self, $fh) = @_ ;
    my (
    $globref,
    $$,
    );

    ## Convert given filehandle to a typeglob reference, if necessary.
    $globref = &_qualify_fh($self, $fh);

    ## Ensure filehandle is already open.
    return $self->error("fhopen filehandle isn't already open")
    unless defined($globref) and defined(fileno $globref);

    ## Ensure we're closed.
    $self->close;

    ## Save our private data.
    $$ = *$self->{net_telnet};

    ## Switch ourself with the given filehandle.

```

```

*$self = *$globref;

## Restore our private data.
*$self->{net_telnet} = $s;

## Re-initialize ourself.
select((select($self), $|=1)[$]); # don't buffer writes
$s = *$self->{net_telnet};
$s->{blksize} = &_optimal_blksize((stat $self)[11]);
$s->{buf} = "";
$s->{eofile} = "";
$s->{errmsg} = "";
vec($s->{fdmask}="", fileno($self), 1) = 1;
$s->{host} = "";
$s->{last_line} = "";
$s->{last_prompt} = "";
$s->{num_wrote} = 0;
$s->{opened} = 1;
$s->{pending_errormsg} = "";
$s->{port} = "";
$s->{pushback_buf} = "";
$s->{timedout} = "";
$s->{unsent_opts} = "";
&_reset_options($s->{opts});

1;
} # end sub fhopen

sub get {
    my ($self, %args) = @_ ;
    my (
        $binmode,
        $endtime,
        $errmode,
        $line,
        $s,
        $telnetmode,
        $timeout,
    );
    local $_;

    ## Init.
    $s = *$self->{net_telnet};
    $timeout = $s->{time_out};
    $s->{timedout} = "";
    return if $s->{eofile};

```

```

## Parse the named args.
foreach (keys %args) {
if (/^-?binmode$/i) {
    $binmode = $args{$_};
    unless (defined $binmode) {
$binmode = 0;
    }
}
elseif (/^-?errmode$/i) {
    $errmode = &_amp;_parse_errmode($self, $args{$_});
}
elseif (/^-?telnetmode$/i) {
    $telnetmode = $args{$_};
    unless (defined $telnetmode) {
$telnetmode = 0;
    }
}
elseif (/^-?timeout$/i) {
    $timeout = &_amp;_parse_timeout($self, $args{$_});
}
else {
    &_amp;_croak($self, "bad named parameter \"$_\" given " .
        "to " . ref($self) . "::get()");
}
}

## If any args given, override corresponding instance data.
local $s->{errormode} = $errmode
if defined $errmode;
    local $s->{bin_mode} = $binmode
if defined $binmode;
    local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

## Set wall time when we time out.
$endtime = &_amp;_endtime($timeout);

## Try to send any waiting option negotiation.
if (length $s->{unsent_opts}) {
&_flush_opts($self);
}

## Try to read just the waiting data using return error mode.
{
local $s->{errormode} = "return";
$s->{errmsg} = "";
&_fillbuf($self, $s, 0);
}

```

```

## We're done if we timed-out and timeout value is set to "poll".
return $self->error($s->{errmsg})
if ($s->{timedout} and defined($timeout) and $timeout == 0
    and !length $s->{buf});

## We're done if we hit an error other than timing out.
if ($s->{errmsg} and !$s->{timedout}) {
if (!length $s->{buf}) {
    return $self->error($s->{errmsg});
}
else { # error encountered but there's some data in buffer
    $s->{pending_errormsg} = $s->{errmsg};
}
}

## Clear time-out error from first read.
$s->{timedout} = "";
$s->{errmsg} = "";

## If buffer is still empty, try to read according to user's timeout.
if (!length $s->{buf}) {
&_fillbuf($self, $s, $endtime)
    or do {
return if $s->{timedout};
}

## We've reached end-of-file.
$self->close;
return;
}

## Extract chars from buffer.
$line = $s->{buf};
$s->{buf} = "";

$line;
} # end sub get

sub getline {
    my ($self, %args) = @_ ;
    my (
$binmode,
$endtime,
$errmode,
$len,
$line,

```

```

$offset,
$pos,
$rs,
$s,
$telnetmode,
$timeout,
);
local $_;

## Init.
$s = *$self->{net_telnet};
$s->{timedout} = "";
return if $s->{eofile};
$rs = $s->{rs};
$timeout = $s->{time_out};

## Parse the named args.
foreach (keys %args) {
if (/^-?binmode$/i) {
    $binmode = $args{$_};
    unless (defined $binmode) {
$binmode = 0;
    }
}
elseif (/^-?errmode$/i) {
    $errmode = &_parse_errmode($self, $args{$_});
}
elseif (/^-?input_record_separator$/i or /^-?rs$/i) {
    $rs = &_parse_input_record_separator($self, $args{$_});
}
elseif (/^-?telnetmode$/i) {
    $telnetmode = $args{$_};
    unless (defined $telnetmode) {
$telnetmode = 0;
    }
}
elseif (/^-?timeout$/i) {
    $timeout = &_parse_timeout($self, $args{$_});
}
else {
    &_croak($self, "bad named parameter \"$_\" given " .
        "to " . ref($self) . "::getline()");
}
}

## If any args given, override corresponding instance data.
local $s->{bin_mode} = $binmode
if defined $binmode;

```

```

local $s->{errormode} = $errmode
if defined $errmode;
  local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

## Set wall time when we time out.
$endtime = &_endtime($timeout);

## Try to send any waiting option negotiation.
if (length $s->{unsent_opts}) {
&_flush_opts($self);
}

## Keep reading into buffer until end-of-line is read.
$offset = 0;
while (($pos = index($s->{buf}, $rs, $offset)) == -1) {
$offset = length $s->{buf};
&_fillbuf($self, $s, $endtime)
  or do {
return if $s->{timedout};
}

## We've reached end-of-file.
$self->close;
if (length $s->{buf}) {
  return $s->{buf};
}
else {
  return;
}
};
}

## Extract line from buffer.
$len = $pos + length $rs;
$line = substr($s->{buf}, 0, $len);
substr($s->{buf}, 0, $len) = "";

$line;
} # end sub getline

```

```

sub getlines {
  my ($self, %args) = @_ ;
  my (
    $binmode,
    $errmode,
    $line,
    $rs,

```

```

$,
$stelnetmode,
$timeout,
);
my $all = 1;
my @lines = ();
local $_;

## Init.
$s = *$self->{net_telnet};
$s->{timedout} = "";
return if $s->{eofile};
$timeout = $s->{time_out};

## Parse the named args.
foreach (keys %args) {
if (/^-?all$/i) {
    $all = $args{$_};
    unless (defined $all) {
        $all = "";
    }
}
elseif (/^-?binmode$/i) {
    $binmode = $args{$_};
    unless (defined $binmode) {
        $binmode = 0;
    }
}
elseif (/^-?errmode$/i) {
    $errmode = &_parse_errmode($self, $args{$_});
}
elseif (/^-?input_record_separator$/i or /^-?rs$/i) {
    $rs = &_parse_input_record_separator($self, $args{$_});
}
elseif (/^-?telnetmode$/i) {
    $stelnetmode = $args{$_};
    unless (defined $stelnetmode) {
        $stelnetmode = 0;
    }
}
elseif (/^-?timeout$/i) {
    $timeout = &_parse_timeout($self, $args{$_});
}
else {
    &_croak($self, "bad named parameter \"$_\" given " .
        "to " . ref($self) . "::

```

```

## If any args given, override corresponding instance data.
local $s->{bin_mode} = $binmode
if defined $binmode;
    local $s->{errormode} = $errmode
if defined $errmode;
    local $s->{rs} = $rs
if defined $rs;
    local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;
    local $s->{time_out} = &_endtime($timeout);

## User requested only the currently available lines.
if (! $all) {
return &_next_getlines($self, $s);
}

## Read lines until eof or error.
while (1) {
$line = $self->getline
    or last;
push @lines, $line;
}

## Check for error.
return if ! $self->eof;

@lines;
} # end sub getlines

sub host {
    my ($self, $host) = @_ ;
    my (
$prev,
$s,
);

    $s = *$self->{net_telnet};
    $prev = $s->{host};

    if (@_ >= 2) {
unless (defined $host) {
    $host = "";
}
}

    $s->{host} = $host;
}

```



```
$prev;  
} # end sub host
```

```
sub input_log {  
    my ($self, $name) = @_;  
    my (  
    $fh,  
    $s,  
    );  
  
    $s = *$self->{net_telnet};  
    $fh = $s->{inputlog};  
  
    if (@_ >= 2) {  
    unless (defined $name) {  
        $name = "";  
    }  
  
    $fh = &_amp;fname_to_handle($self, $name)  
        or return;  
    $s->{inputlog} = $fh;  
    }  
  
    $fh;  
} # end sub input_log
```

```
sub input_record_separator {  
    my ($self, $rs) = @_;  
    my (  
    $prev,  
    $s,  
    );  
  
    $s = *$self->{net_telnet};  
    $prev = $s->{rs};  
  
    if (@_ >= 2) {  
    $s->{rs} = &_amp;parse_input_record_separator($self, $rs);  
    }  
  
    $prev;  
} # end sub input_record_separator
```

```
sub last_prompt {
```

```

my ($self, $string) = @_;
my (
$prev,
$s,
);

$s = *$self->{net_telnet};
$prev = $s->{last_prompt};

if (@_ >= 2) {
unless (defined $string) {
    $string = "";
}

$s->{last_prompt} = $string;
}

$prev;
} # end sub last_prompt

```

```

sub lastline {
my ($self, $line) = @_;
my (
$prev,
$s,
);

$s = *$self->{net_telnet};
$prev = $s->{last_line};

if (@_ >= 2) {
unless (defined $line) {
    $line = "";
}

$s->{last_line} = $line;
}

$prev;
} # end sub lastline

```

```

sub login {
my ($self) = @_;
my (
$errmode,
$error,

```

```

$sis_passwd_arg,
$sis_username_arg,
$lastline,
$match,
$ors,
$passwd,
$prematch,
$prompt,
$s,
$timeout,
$username,
%args,
);
local $_;

## Init.
$self->timed_out("");
$self->last_prompt("");
$s = *$self->{net_telnet};
$timeout = $self->timeout;
$ors = $self->output_record_separator;
$prompt = $self->prompt;

## Parse args.
if (@_ == 3) { # just username and passwd given
$username = $_[1];
$passwd = $_[2];

$sis_username_arg = 1;
$sis_passwd_arg = 1;
}
else { # named args given
## Get the named args.
(undef, %args) = @_;

## Parse the named args.
foreach (keys %args) {
    if (/^-?errmode$/i) {
        $errmode = &_amp;parse_errmode($self, $args{$_});
    }
    elsif (/^-?name$/i) {
        $username = $args{$_};
        unless (defined $username) {
            $username = "";
        }
    }

    $sis_username_arg = 1;
}
}

```

```

    elsif (/^-?pass/i) {
$passwd = $args{$_};
unless (defined $passwd) {
    $passwd = "";
}

$sis_passwd_arg = 1;
}
    elsif (/^-?prompt$/i) {
$prompt = &_amp;_parse_prompt($self, $args{$_});
}
    elsif (/^-?timeout$/i) {
$timeout = &_amp;_parse_timeout($self, $args{$_});
}
    else {
&_croak($self, "bad named parameter \"$_\" given ",
"to " . ref($self) . "::login()");
}
}
}

## Ensure both username and password argument given.
&_croak($self, "Name argument not given to " . ref($self) . "::login()")
unless $sis_username_arg;
&_croak($self, "Password argument not given to " . ref($self) . "::login()")
unless $sis_passwd_arg;

## Override some user settings.
local $s->{errormode} = $errmode
if defined $errmode;
local $s->{time_out} = &_amp;_endtime($timeout);

## Create a subroutine to generate an error.
$error
= sub {
    my ($errmsg) = @_ ;

    if ($self->timed_out) {
return $self->error($errmsg);
    }
    elsif ($self->eof) {
($lastline = $self->lastline) =~ s/^\n+//;
return $self->error($errmsg, ":", $lastline);
    }
    else {
return $self->error($self->errmsg);
    }
};

```

```

return $self->error("login failed: filehandle isn't open")
if $self->eof;

## Wait for login prompt.
$self->waitfor(Match => '/login[: ]*$/i',
    Match => '/username[: ]*$/i',
    Errmode => "return")
or do {
    return &$error("eof read waiting for login prompt")
if $self->eof;
    return &$error("timed-out waiting for login prompt");
};

## Delay sending response because of bug in Linux login program.
&_sleep(0.01);

## Send login name.
$self->put(String => $username . $ors,
    Errmode => "return")
or return &$error("login disconnected");

## Wait for password prompt.
$self->waitfor(Match => '/password[: ]*$/i',
    Errmode => "return")
or do {
    return &$error("eof read waiting for password prompt")
if $self->eof;
    return &$error("timed-out waiting for password prompt");
};

## Delay sending response because of bug in Linux login program.
&_sleep(0.01);

## Send password.
$self->put(String => $passwd . $ors,
    Errmode => "return")
or return &$error("login disconnected");

## Wait for command prompt or another login prompt.
($prematch, $match) = $self->waitfor(Match => '/login[: ]*$/i',
    Match => '/username[: ]*$/i',
    Match => $prompt,
    Errmode => "return")
or do {
    return &$error("eof read waiting for command prompt")
if $self->eof;

```

```

    return &$error("timed-out waiting for command prompt");
};

## It's a bad login if we got another login prompt.
return $self->error("login failed: bad name or password")
if $match =~ /login[: ]*$/i or $match =~ /username[: ]*$/i;

## Save the most recently matched command prompt.
$self->last_prompt($match);

1;
} # end sub login

sub max_buffer_length {
    my ($self, $maxbufsize) = @_ ;
    my (
    $prev,
    $$,
    );
    my $minbufsize = 512;

    $$ = *$self->{net_telnet};
    $prev = $$->{maxbufsize};

    if (@_ >= 2) {
    ## Ensure a positive integer value.
    unless (defined $maxbufsize
    and $maxbufsize =~ /\d+$/
    and $maxbufsize)
    {
        &_carp($self, "ignoring bad Max_buffer_length " .
        "argument \"$maxbufsize\": it's not a positive integer");
        $maxbufsize = $prev;
    }

    ## Adjust up values that are too small.
    if ($maxbufsize < $minbufsize) {
        $maxbufsize = $minbufsize;
    }

    $$->{maxbufsize} = $maxbufsize;
    }

    $prev;
} # end sub max_buffer_length

```

```
## Make ofs() synonymous with output_field_separator().
```

```
*ofs = \&output_field_separator;
```

```
sub open {
```

```
    my ($self) = @_;
```

```
    my (
```

```
    $errmode,
```

```
    $errno,
```

```
    $host,
```

```
    $ip_addr,
```

```
    $port,
```

```
    $s,
```

```
    $timeout,
```

```
    %args,
```

```
);
```

```
    local $_;
```

```
    ## Init.
```

```
    $s = *$self->{net_telnet};
```

```
    $timeout = $s->{time_out};
```

```
    $s->{timedout} = "";
```

```
    if (@_ == 2) { # one positional arg given
```

```
    $self->host($_[1]);
```

```
    }
```

```
    elsif (@_ > 2) { # named args given
```

```
    ## Get the named args.
```

```
    (undef, %args) = @_;
```

```
    ## Parse the named args.
```

```
    foreach (keys %args) {
```

```
        if (/^-?errmode$/i) {
```

```
        $errmode = &_parse_errmode($self, $args{$_});
```

```
        }
```

```
        elsif (/^-?host$/i) {
```

```
        $self->host($args{$_});
```

```
        }
```

```
        elsif (/^-?port$/i) {
```

```
        $self->port($args{$_})
```

```
        or return;
```

```
        }
```

```
        elsif (/^-?timeout$/i) {
```

```
        $timeout = &_parse_timeout($self, $args{$_});
```

```
        }
```

```
        else {
```

```
        &_croak($self, "bad named parameter \"$_\" given ",
```

```
        "to " . ref($self) . "::open()");
```

```

    }
}
}

## If any args given, override corresponding instance data.
local $s->{errormode} = $errmode
if defined $errmode;

## Get host and port.
$host = $self->host;
$port = $self->port;

## Ensure we're already closed.
$self->close;

## Connect with or without a timeout.
if (defined($timeout) and &_have_alarm) { # use a timeout
## Convert possible absolute timeout to relative timeout.
if ($timeout >= $^T) { # it's an absolute time
    $timeout = $timeout - time;
}

## Ensure a valid timeout value for alarm.
if ($timeout < 1) {
    $timeout = 1;
}
$timeout = int($timeout + 1.5);

## Connect to server, timing out if it takes too long.
eval {
    ## Turn on timer.
    local $SIG{"__DIE__"} = "DEFAULT";
    local $SIG{ALRM} = sub { die "timed-out\n" };
    alarm $timeout;

    ## Lookup server's IP address.
    $ip_addr = inet_aton $host
    or die "unknown remote host: $host\n";

    ## Create a socket and attach the filehandle to it.
    socket $self, AF_INET, SOCK_STREAM, 0
    or die "problem creating socket: $!\n";

    ## Open connection to server.
    connect $self, sockaddr_in($port, $ip_addr)
    or die "problem connecting to \"$host\", port $port: $!\n";
};
alarm 0;

```



```

## Check for error.
if ($@ =~ /^timed-out$/) { # time out failure
    $s->{timedout} = 1;
    $self->close;
    if (!$ip_addr) {
return $self->error("unknown remote host: $host: ",
    "name lookup timed-out");
    }
    else {
return $self->error("problem connecting to \"$host\", ",
    "port $port: connect timed-out");
    }
}
}
elseif ($@) { # hostname lookup or connect failure
    $self->close;
    chomp $@;
    return $self->error($@);
}
}
else { # don't use a timeout
$timeout = undef;

## Lookup server's IP address.
$ip_addr = inet_aton $host
    or return $self->error("unknown remote host: $host");

## Create a socket and attach the filehandle to it.
socket $self, AF_INET, SOCK_STREAM, 0
    or return $self->error("problem creating socket: $!");

## Open connection to server.
connect $self, sockaddr_in($port, $ip_addr)
    or do {
        $errno = "$!";
        $self->close;
        return $self->error("problem connecting to \"$host\", ",
            "port $port: $errno");
    };
}

select((select($self), $|=1)[0]); # don't buffer writes
$s->{blksize} = &_optimal_blksize((stat $self)[11]);
$s->{buf} = "";
$s->{eofile} = "";
$s->{errmsg} = "";
vec($s->{fdmask}="", fileno($self), 1) = 1;
$s->{last_line} = "";

```

```

    $s->{num_wrote} = 0;
    $s->{opened} = 1;
    $s->{pending_errormsg} = "";
    $s->{pushback_buf} = "";
    $s->{timedout} = "";
    $s->{unsent_opts} = "";
    &_reset_options($s->{opts});

    1;
} # end sub open

sub option_accept {
    my ($self, @args) = @_;
    my (
    $arg,
    $option,
    $s,
    @opt_args,
    );
    local $_;

    ## Init.
    $s = *$self->{net_telnet};

    ## Parse the named args.
    while (($_, $arg) = splice @args, 0, 2) {
    ## Verify and save arguments.
    if (/^-?do$/i) {
        ## Make sure a callback is defined.
        return $self->error("usage: an option callback must already ",
        "be defined when enabling with $_")
        unless $s->{opt_cback};

        $option = &_verify_teloarg($self, $arg, $_);
        return unless defined $option;
        push @opt_args, { option => $option,
            is_remote => "",
            is_enable => 1,
        };
    }
    elsif (/^-?dont$/i) {
        $option = &_verify_teloarg($self, $arg, $_);
        return unless defined $option;
        push @opt_args, { option => $option,
            is_remote => "",
            is_enable => "",
        };
    }
}

```

```

}
elsif (/^-?will$/i) {
    ## Make sure a callback is defined.
    return $self->error("usage: an option callback must already ",
        "be defined when enabling with $_")
    unless $s->{opt_cback};

    $option = &_verify_telo_opt_arg($self, $arg, $_);
    return unless defined $option;
    push @opt_args, { option => $option,
        is_remote => 1,
        is_enable => 1,
    };
}
elsif (/^-?wont$/i) {
    $option = &_verify_telo_opt_arg($self, $arg, $_);
    return unless defined $option;
    push @opt_args, { option => $option,
        is_remote => 1,
        is_enable => "",
    };
}
else {
    return $self->error('usage: $obj->option_accept(' .
        '[Do => $telo_opt,] ',
        '[Dont => $telo_opt,] ',
        '[Will => $telo_opt,] ',
        '[Wont => $telo_opt,]');
}
}

## Set "receive ok" for options specified.
&_opt_accept($self, @opt_args);
} # end sub option_accept

```

```

sub option_callback {
    my ($self, $callback) = @_;
    my (
        $prev,
        $$,
    );

    $$ = *$self->{net_telnet};
    $prev = $$->{opt_cback};

    if (@_ >= 2) {
        unless (defined $callback and ref($callback) eq "CODE") {

```

```

    &_carp($self, "ignoring Option_callback argument because it's " .
    "not a code ref");
    $callback = $prev;
}

$s->{opt_cback} = $callback;
}

$prev;
} # end sub option_callback

```

```

sub option_log {
    my ($self, $name) = @_;
    my (
    $fh,
    $s,
    );

    $s = *$self->{net_telnet};
    $fh = $s->{opt_log};

    if (@_ >= 2) {
    unless (defined $name) {
        $name = "";
    }

    $fh = &_fname_to_handle($self, $name)
        or return;
    $s->{opt_log} = $fh;
    }

    $fh;
} # end sub option_log

```

```

sub option_state {
    my ($self, $option) = @_;
    my (
    $opt_state,
    $s,
    %opt_state,
    );

    ## Ensure telnet option is non-negative integer.
    $option = &_verify_telopt_arg($self, $option);
    return unless defined $option;
}

```

```

## Init.
$s = *$self->{net_telnet};
unless (defined $s->{opts}{ $option}) {
&_set_default_option($s, $option);
}

## Return hashref to a copy of the values.
$opt_state = $s->{opts}{ $option};
%opt_state = %$opt_state;
\%opt_state;
} # end sub option_state

## Make ors() synonymous with output_record_separator().
*ors = \&output_record_separator;

sub output_field_separator {
  my ($self, $ofs) = @_ ;
  my (
  $prev,
  $s,
  );

  $s = *$self->{net_telnet};
  $prev = $s->{ofs};

  if (@_ >= 2) {
unless (defined $ofs) {
  $ofs = "";
}

  $s->{ofs} = $ofs;
}

  $prev;
} # end sub output_field_separator

sub output_log {
  my ($self, $name) = @_ ;
  my (
  $fh,
  $s,
  );

  $s = *$self->{net_telnet};
  $fh = $s->{outputlog};

```

```

    if (@_ >= 2) {
unless (defined $name) {
    $name = "";
}

$fh = &_fname_to_handle($self, $name)
    or return;
$s->{outputlog} = $fh;
}

$fh;
} # end sub output_log

```

```

sub output_record_separator {
    my ($self, $ors) = @_;
    my (
$prev,
$s,
);

    $s = *$self->{net_telnet};
    $prev = $s->{ors};

    if (@_ >= 2) {
unless (defined $ors) {
        $ors = "";
}

    $s->{ors} = $ors;
}

    $prev;
} # end sub output_record_separator

```

```

sub port {
    my ($self, $port) = @_;
    my (
$prev,
$s,
$service,
);

    $s = *$self->{net_telnet};
    $prev = $s->{port};

```

```

    if (@_ >= 2) {
unless (defined $port) {
    $port = "";
}

if (!$port) {
    &_carp($self, "ignoring bad Port argument \"$port\");
    $port = $prev;
}
elsif ($port !~ /^\d+$/) { # port isn't all digits
    $service = $port;
    $port = getservbyname($service, "tcp");
    unless ($port) {
&_carp($self, "ignoring bad Port argument \"$service\": " .
        "it's an unknown TCP service");
    $port = $prev;
    }
}

$s->{port} = $port;
}

$prev;
} # end sub port

```

```

sub print {
    my ($self) = shift;
    my (
$buf,
$fh,
$s,
);

    $s = *$self->{net_telnet};
    $s->{timeout} = "";
    return $self->error("write error: filehandle isn't open")
unless $s->{opened};

    ## Add field and record separators.
    $buf = join($s->{ofs}, @_). $s->{ors};

    ## Log the output if requested.
    if ($s->{outputlog}) {
&_log_print($s->{outputlog}, $buf);
    }

    ## Convert native newlines to CR LF.

```

```

    if (!$s->{bin_mode}) {
$buf =~ s(\n)(\015\012)g;
    }

    ## Escape TELNET IAC and also CR not followed by LF.
    if ($s->{telnet_mode}) {
$buf =~ s(\377)(\377\377)g;
    &_escape_cr(\$buf);
    }

    &_put($self, \$buf, "print");
} # end sub print

```

```

sub print_length {
    my ($self) = @_ ;

    *$self->{net_telnet}{num_wrote};
} # end sub print_length

```

```

sub prompt {
    my ($self, $prompt) = @_ ;
    my (
$prev,
$s,
);

    $s = *$self->{net_telnet};
    $prev = $s->{cmd_prompt};

    ## Parse args.
    if (@_ == 2) {
$s->{cmd_prompt} = &_parse_prompt($self, $prompt);
    }

    $prev;
} # end sub prompt

```

```

sub put {
    my ($self) = @_ ;
    my (
$binmode,
$buf,
$errmode,
$is_timeout_arg,
$s,

```



```

$telnetmode,
$timeout,
%args,
);
local $_;

## Init.
$s = *$self->{net_telnet};
$s->{timedout} = "";

## Parse args.
if (@_ == 2) { # one positional arg given
$buf = $_[1];
}
elseif (@_ > 2) { # named args given
## Get the named args.
(undef, %args) = @_;

## Parse the named args.
foreach (keys %args) {
    if (/^-?binmode$/i) {
$binmode = $args{$_};
unless (defined $binmode) {
    $binmode = 0;
}
}
elseif (/^-?errmode$/i) {
$errmode = &_parse_errmode($self, $args{$_});
}
elseif (/^-?string$/i) {
$buf = $args{$_};
}
elseif (/^-?telnetmode$/i) {
$telnetmode = $args{$_};
unless (defined $telnetmode) {
    $telnetmode = 0;
}
}
elseif (/^-?timeout$/i) {
$timeout = &_parse_timeout($self, $args{$_});
$is_timeout_arg = 1;
}
else {
&_croak($self, "bad named parameter \"$_\" given ",
"to " . ref($self) . "::put()");
}
}
}
}

```

```

## If any args given, override corresponding instance data.
local $s->{bin_mode} = $binmode
if defined $binmode;
    local $s->{errormode} = $errmode
if defined $errmode;
    local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;
    local $s->{time_out} = $timeout
if defined $is_timeout_arg;

## Check for errors.
return $self->error("write error: filehandle isn't open")
unless $s->{opened};

## Log the output if requested.
if ($s->{outputlog}) {
&_log_print($s->{outputlog}, $buf);
}

## Convert native newlines to CR LF.
if (!$s->{bin_mode}) {
$buf =~ s(\n)(\015\012)g;
}

## Escape TELNET IAC and also CR not followed by LF.
if ($s->{telnet_mode}) {
$buf =~ s(\377)(\377\377)g;
&_escape_cr(\$buf);
}

&_put($self, \$buf, "print");
} # end sub put

## Make rs() synonymous input_record_separator().
*rs = \&input_record_separator;

sub suboption_callback {
    my ($self, $callback) = @_;
    my (
$prev,
$s,
);

    $s = *$self->{net_telnet};
    $prev = $s->{subopt_cback};

```

```

    if (@_ >= 2) {
unless (defined $callback and ref($callback) eq "CODE") {
    &_carp($self,"ignoring Suboption_callback argument because it's " .
    "not a code ref");
    $callback = $prev;
}

$s->{subopt_cback} = $callback;
}

$prev;
} # end sub suboption_callback

```

```

sub telnetmode {
    my ($self, $mode) = @_;
    my (
$prev,
$s,
);

```

```

    $s = *$self->{net_telnet};
    $prev = $s->{telnet_mode};

```

```

    if (@_ >= 2) {
unless (defined $mode) {
    $mode = 0;
}

```

```

    $s->{telnet_mode} = $mode;
}

```

```

    $prev;
} # end sub telnetmode

```

```

sub timed_out {
    my ($self, $value) = @_;
    my (
$prev,
$s,
);

```

```

    $s = *$self->{net_telnet};
    $prev = $s->{timedout};

```

```

    if (@_ >= 2) {

```

```
unless (defined $value) {  
    $value = "";  
}
```

```
$s->{timeout} = $value;  
}
```

```
$prev;  
} # end sub timed_out
```

```
sub timeout {  
    my ($self, $timeout) = @_;  
    my (  
$prev,  
$s,  
);
```

```
$s = *$self->{net_telnet};  
$prev = $s->{time_out};
```

```
if (@_ >= 2) {  
$s->{time_out} = &_parse_timeout($self, $timeout);  
}
```

```
$prev;  
} # end sub timeout
```

```
sub waitfor {  
    my ($self, @args) = @_;  
    my (  
$arg,  
$binmode,  
$endtime,  
$errmode,  
$len,  
$match,  
$match_op,  
$pos,  
$prematch,  
$s,  
$search,  
$search_cond,  
$telnetmode,  
$timeout,  
@match_cond,  
@match_ops,
```

```

@search_cond,
@string_cond,
@warns,
);
local $_;

## Init.
$s = *$self->{net_telnet};
$s->{timeout} = "";
return if $s->{eof};
return unless @args;
$timeout = $s->{time_out};

## Code template used to build string match conditional.
## Values between array elements must be supplied later.
@string_cond =
('if (($pos = index $s->{buf}, ', ') > -1) {
    $len = ', ';
    $prematch = substr $s->{buf}, 0, $pos;
    $match = substr $s->{buf}, $pos, $len;
    substr($s->{buf}, 0, $pos + $len) = "";
    last;
}');

## Code template used to build pattern match conditional.
## Values between array elements must be supplied later.
@match_cond =
('if ($s->{buf} =~ ', ') {
    $prematch = $';
    $match = $&;
    substr($s->{buf}, 0, length($') + length($&)) = "";
    last;
}');

## Parse args.
if (@_ == 2) { # one positional arg given
    $arg = $_[1];

## Fill in the blanks in the code template.
    push @match_ops, $arg;
    push @search_cond, join("", $match_cond[0], $arg, $match_cond[1]);
}
elseif (@_ > 2) { # named args given
## Parse the named args.
while (($_, $arg) = splice @args, 0, 2) {
    if (/^-?binmode$/i) {
        $binmode = $arg;
        unless (defined $binmode) {

```

```

    $binmode = 0;
}
}
    elsif (/^-?errmode$/i) {
$errmode = &_amp;_parse_errmode($self, $arg);
    }
    elsif (/^-?match$/i) {
## Fill in the blanks in the code template.
push @match_ops, $arg;
push @search_cond, join("",
    $match_cond[0], $arg, $match_cond[1]);
    }
    elsif (/^-?string$/i) {
## Fill in the blanks in the code template.
$arg =~ s/\\/\\/g; # quote ticks
push @search_cond, join("",
    $string_cond[0], "$arg",
    $string_cond[1], length($arg),
    $string_cond[2]);
    }
    elsif (/^-?telnetmode$/i) {
$telnetmode = $arg;
unless (defined $telnetmode) {
    $telnetmode = 0;
}
}
    elsif (/^-?timeout$/i) {
$timeout = &_amp;_parse_timeout($self, $arg);
    }
    else {
&_croak($self, "bad named parameter \"$_\" given " .
    "to " . ref($self) . "::waitfor()");
    }
}
}

## If any args given, override corresponding instance data.
local $s->{errormode} = $errmode
if defined $errmode;
local $s->{bin_mode} = $binmode
if defined $binmode;
local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

## Check for bad match operator argument.
foreach $match_op (@match_ops) {
return $self->error("missing opening delimiter of match operator ",
    "in argument \"'$match_op'\" given to ",

```

```

    ref($self) . "::waitfor()")
    unless $match_op =~ m(^s*/) or $match_op =~ m(^s*m\s*\W);
}

## Construct conditional to check for requested string and pattern matches.
## Turn subsequent "if"s into "elsif".
$search_cond = join "\n\tels", @search_cond;

## Construct loop to fill buffer until string/pattern, timeout, or eof.
$search = join "", "
while (1) {\n\t",
$search_cond, '
&_fillbuf($self, $s, $endtime)
    or do {
last if $s->{timedout};
$self->close;
last;
    };
}';

## Set wall time when we timeout.
$endtime = &_endtime($timeout);

## Run the loop.
{
local $^W = 1;
local $SIG{"__WARN__"} = sub { push @warns, @_ };
local $s->{errormode} = "return";
$s->{errormsg} = "";
eval $search;
}

## Check for failure.
return $self->error("pattern match timed-out") if $s->{timedout};
return $self->error($s->{errormsg}) if $s->{errormsg} ne "";
return $self->error("pattern match read eof") if $s->{eofile};

## Check for Perl syntax errors or warnings.
if ($@ or @warns) {
foreach $match_op (@match_ops) {
    &_match_check($self, $match_op)
or return;
}
return $self->error($@) if $@;
return $self->error(@warns) if @warns;
}

wantarray ? ($prematch, $match) : 1;

```

```
} # end sub waitfor
```

```
##### Private Subroutines #####
```

```
sub _append_lineno {  
    my ($obj, @msgs) = @_;  
    my (  
    $file,  
    $line,  
    $pkg,  
    );
```

```
    ## Find the caller that's not in object's class or one of its base classes.  
    ($pkg, $file, $line) = &_amp;_user_caller($obj);  
    join("", @msgs, " at ", $file, " line ", $line, "\n");  
} # end sub _append_lineno
```

```
sub _carp {  
    warn &_amp;_append_lineno(@_);  
} # end sub _carp
```

```
sub _croak {  
    die &_amp;_append_lineno(@_);  
} # end sub _croak
```

```
sub _endtime {  
    my ($interval) = @_;  
  
    ## Compute wall time when timeout occurs.  
    if (defined $interval) {  
    if ($interval >= $^T) { # it's already an absolute time  
        return $interval;  
    }  
    elsif ($interval > 0) { # it's relative to the current time  
        return int(time + 1.5 + $interval);  
    }  
    else { # it's a one time poll  
        return 0;  
    }  
    }  
    else { # there's no timeout  
    return undef;  
    }  
}
```



```

} # end sub _endtime

sub _escape_cr {
    my ($string) = @_;
    my (
    $nextchar,
    );
    my $pos = 0;

    ## Convert all CR (not followed by LF) to CR NULL.
    while (($pos = index($string, "\015", $pos)) > -1) {
    $nextchar = substr $$string, $pos + 1, 1;

    substr($$string, $pos, 1) = "\015\000"
        unless $nextchar eq "\012";

    $pos++;
    }

    1;
} # end sub _escape_cr

```

```

sub _fillbuf {
    my ($self, $s, $endtime) = @_;
    my (
    $msg,
    $nfound,
    $nread,
    $pushback_len,
    $read_pos,
    $ready,
    $timed_out,
    $timeout,
    $unparsed_pos,
    );

    ## If error from last read not yet reported then do it now.
    if ($s->{pending_errormsg}) {
    $msg = $s->{pending_errormsg};
    $s->{pending_errormsg} = "";
    return $self->error($msg);
    }

    return unless $s->{opened};

    while (1) {

```

```

## Maximum buffer size exceeded?
return $self->error("maximum input buffer length exceeded: ",
    $s->{maxbufsize}, " bytes")
    unless length($s->{buf}) <= $s->{maxbufsize};

## Determine how long to wait for input ready.
($timed_out, $timeout) = &_amp_timeout_interval($endtime);
if ($timed_out) {
    $s->{timedout} = 1;
    return $self->error("read timed-out");
}

## Wait for input ready.
$nfound = select $ready=$s->{fdmask}, "", "", $timeout;

## Handle any errors while waiting.
if (!defined $nfound or $nfound <= 0) { # input not ready
    if (defined $nfound and $nfound == 0) { # timed-out
        $s->{timedout} = 1;
        return $self->error("read timed-out");
    }
    else { # error waiting for input ready
        next if $! =~ /^interrupted/i;
    }
}

$s->{opened} = "";
return $self->error("read error: $!");
}

## Append to buffer any partially processed telnet or CR sequence.
$pushback_len = length $s->{pushback_buf};
if ($pushback_len) {
    $s->{buf} .= $s->{pushback_buf};
    $s->{pushback_buf} = "";
}

## Read the waiting data.
$read_pos = length $s->{buf};
$unparsed_pos = $read_pos - $pushback_len;
$nread = sysread $self, $s->{buf}, $s->{blksize}, $read_pos;

## Handle any read errors.
if (!defined $nread) { # read failed
    next if $! =~ /^interrupted/i; # restart interrupted syscall

    $s->{opened} = "";
    return $self->error("read error: $!");
}

```

```

## Handle eof.
if ($read == 0) { # eof read
    $s->{opened} = "";
    return;
}

## Display network traffic if requested.
if ($s->{dumplog}) {
    &_log_dump('<', $s->{dumplog}, \$s->{buf}, $read_pos);
}

## Process any telnet commands in the data stream.
if ($s->{telnet_mode} and index($s->{buf}, "\377", $unparsed_pos) > -1) {
    &_interpret_tcmd($self, $s, $unparsed_pos);
}

## Process any carriage-return sequences in the data stream.
&_interpret_cr($s, $unparsed_pos);

## Read again if all chars read were consumed as telnet cmds.
next if $unparsed_pos >= length $s->{buf};

## Log the input if requested.
if ($s->{inputlog}) {
    &_log_print($s->{inputlog}, substr($s->{buf}, $unparsed_pos));
}

## Save the last line read.
&_save_lastline($s);

## We've successfully read some data into the buffer.
last;
} # end while(1)

1;
} # end sub _fillbuf

sub _flush_opts {
    my ($self) = @_;
    my (
        $option_chars,
    );
    my $s = *$self->{net_telnet};

    ## Get option and clear the output buf.
    $option_chars = $s->{unsent_opts};

```

```

$s->{unsent_opts} = "";

## Try to send options without waiting.
{
local $s->{errormode} = "return";
local $s->{time_out} = 0;
&_put($self, \$option_chars, "telnet option negotiation")
  or do {
## Save chars not printed for later.
substr($option_chars, 0, $self->print_length) = "";
$s->{unsent_opts} .= $option_chars;
  };
}

1;
} # end sub _flush_opts

sub _fname_to_handle {
  my ($self, $fh) = @_ ;
  my (
$filename,
);

## Ensure valid input.
return ""
unless defined $fh and (ref $fh or length $fh);

## Open a new filehandle if input is a filename.
no strict "refs";
if (!ref($fh) and !defined(fileno $fh)) { # fh is a filename
$filename = $fh;
$fh = &_new_handle();
CORE::open $fh, "> $filename"
  or return $self->error("problem creating $filename: $!");
}

select((select($fh), $|=1)[$[]]; # don't buffer writes
$fh;
} # end sub _fname_to_handle

sub _have_alarm {
  eval {
local $SIG{"__DIE__"} = "DEFAULT";
local $SIG{ALRM} = sub { die };
alarm 0;
  };
}

```

```

! $@;
} # end sub _have_alarm

sub _interpret_cr {
    my ($s, $pos) = @_ ;
    my (
    $nextchar,
    );

    while (($pos = index($s->{buf}, "\015", $pos)) > -1) {
    $nextchar = substr($s->{buf}, $pos + 1, 1);
    if ($nextchar eq "\0") {
        ## Convert CR NULL to CR when in telnet mode.
        if ($s->{telnet_mode}) {
            substr($s->{buf}, $pos + 1, 1) = "";
        }
    }
    elsif ($nextchar eq "\012") {
        ## Convert CR LF to newline when not in binary mode.
        if (!$s->{bin_mode}) {
            substr($s->{buf}, $pos, 2) = "\n";
        }
    }
    elsif (!length($nextchar) and ($s->{telnet_mode} or !$s->{bin_mode})) {
        ## Save CR in alt buffer for possible CR LF or CR NULL conversion.
        $s->{pushback_buf} .= "\015";
        chop $s->{buf};
    }

    $pos++;
    }

    1;
} # end sub _interpret_cr

sub _interpret_tcmd {
    my ($self, $s, $offset) = @_ ;
    my (
    $callback,
    $endpos,
    $nextchar,
    $option,
    $parameters,
    $pos,
    $subcmd,

```

```

);
local $_;

## Parse telnet commands in the data stream.
$pos = $offset;
while (($pos = index $s->{buf}, "\377", $pos) > -1) { # unprocessed IAC
$nextchar = substr $s->{buf}, $pos + 1, 1;

## Save command if it's only partially read.
if (!length $nextchar) {
    $s->{pushback_buf} .= "\377";
    chop $s->{buf};
    last;
}

if ($nextchar eq "\377") { # IAC is escaping "\377" char
    ## Remove escape char from data stream.
    substr($s->{buf}, $pos, 1) = "";
    $pos++;
}
elseif ($nextchar eq "\375" or $nextchar eq "\373" or
    $nextchar eq "\374" or $nextchar eq "\376") { # opt negotiation
    $option = substr $s->{buf}, $pos + 2, 1;

    ## Save command if it's only partially read.
    if (!length $option) {
        $s->{pushback_buf} .= "\377" . $nextchar;
        chop $s->{buf};
        chop $s->{buf};
        last;
    }

    ## Remove command from data stream.
    substr($s->{buf}, $pos, 3) = "";

    ## Handle option negotiation.
    &_negotiate_rcv($self, $s, $nextchar, ord($option), $pos);
}
elseif ($nextchar eq "\372") { # start of subnegotiation parameters
    ## Save command if it's only partially read.
    $sendpos = index $s->{buf}, "\360", $pos;
    if ($sendpos == -1) {
        $s->{pushback_buf} .= substr $s->{buf}, $pos;
        substr($s->{buf}, $pos) = "";
        last;
    }

    ## Remove subnegotiation cmd from buffer.

```

```

$subcmd = substr($s->{buf}, $pos, $endpos - $pos + 1);
substr($s->{buf}, $pos, $endpos - $pos + 1) = "";

## Invoke subnegotiation callback.
if ($s->{subopt_cback} and length($subcmd) >= 5) {
$option = unpack "C", substr($subcmd, 2, 1);
if (length($subcmd) >= 6) {
    $parameters = substr $subcmd, 3, length($subcmd) - 5;
}
else {
    $parameters = "";
}

$callback = $s->{subopt_cback};
&$callback($self, $option, $parameters);
}
}
else { # various two char telnet commands
    ## Ignore and remove command from data stream.
    substr($s->{buf}, $pos, 2) = "";
}
}

## Try to send any waiting option negotiation.
if (length $s->{unsent_opts}) {
&_flush_opts($self);
}

1;
} # end sub _interpret_tcmd

sub _io_socket_include {
    local $SIG{"__DIE__"} = "DEFAULT";
    eval "require IO::Socket";
} # end sub io_socket_include

sub _log_dump {
    my ($direction, $fh, $data, $offset, $len) = @_ ;
    my (
    $addr,
    $hexvals,
    $line,
    );

    $addr = 0;
    $len = length($data) - $offset

```

```

if !defined $len;
    return 1 if $len <= 0;

    ## Print data in dump format.
    while ($len > 0) {
## Convert up to the next 16 chars to hex, padding w/ spaces.
if ($len >= 16) {
    $line = substr $$data, $offset, 16;
}
else {
    $line = substr $$data, $offset, $len;
}
$hexvals = unpack("H*", $line);
$hexvals .= ' ' x (32 - length $hexvals);

## Place in 16 columns, each containing two hex digits.
$hexvals = sprintf("%s %s %s %s " x 4,
    unpack("a2" x 16, $hexvals));

## For the ASCII column, change unprintable chars to a period.
$line =~ s/[\000-\037,\177-\237]/./g;

## Print the line in dump format.
&_log_print($fh, sprintf("%s 0x%5.5lx: %s%s\n",
    $direction, $addr, $hexvals, $line));

$addr += 16;
$offset += 16;
$len -= 16;
    }

    &_log_print($fh, "\n");

    1;
} # end sub _log_dump

```

```

sub _log_option {
    my ($fh, $direction, $request, $option) = @_ ;
    my (
$name,
);

    if ($option >= 0 and $option <= $#Telopts) {
$name = $Telopts[$option];
    }
    else {
$name = $option;

```



```

}

    &_log_print($fh, "$direction $request $name\n");
} # end sub _log_option

sub _log_print {
    my ($fh, $buf) = @_ ;
    local $\ = "";

    if (ref($fh) and ref($fh) ne "GLOB") { # fh is blessed ref
    $fh->print($buf);
    }
    else { # fh isn't blessed ref
    print $fh $buf;
    }
} # end sub _log_print

sub _match_check {
    my ($self, $code) = @_ ;
    my $error;
    my @warns = ();

    ## Use eval to check for syntax errors or warnings.
    {
    local $$SIG{"__DIE__"} = "DEFAULT";
    local $$SIG{"__WARN__"} = sub { push @warns, @_ };
    local $^W = 1;
    local $_ = "";
    eval "\$_ =~ $code;";
    }
    if ($@) {
    ## Remove useless lines numbers from message.
    ($error = $@) =~ s/ at \((eval \d+)\) line \d+\.?//;
    chomp $error;
    return $self->error("bad match operator: $error");
    }
    elsif (@warns) {
    ## Remove useless lines numbers from message.
    ($error = shift @warns) =~ s/ at \((eval \d+)\) line \d+\.?//;
    $error =~ s/ while "strict subs" in use//;
    chomp $error;
    return $self->error("bad match operator: $error");
    }

    1;
} # end sub _match_check

```

```

sub _negotiate_callback {
    my ($self, $opt, $is_remote, $is_enabled, $was_enabled, $opt_bufpos) = @_ ;
    my (
    $callback,
    $s,
    );
    local $_;

    ## Keep track of remote echo.
    if ($is_remote and $opt == &TELOPT_ECHO) { # received WILL or WONT ECHO
    $s = *$self->{net_telnet};

    if ($is_enabled and !$was_enabled) { # received WILL ECHO
        $s->{remote_echo} = 1;
    }
    elsif (!$is_enabled and $was_enabled) { # received WONT ECHO
        $s->{remote_echo} = "";
    }
    }

    ## Invoke callback, if there is one.
    $callback = $self->option_callback;
    if ($callback) {
    &$callback($self, $opt, $is_remote,
        $is_enabled, $was_enabled, $opt_bufpos);
    }

    1;
} # end sub _negotiate_callback

sub _negotiate_recv {
    my ($self, $s, $opt_request, $opt, $opt_bufpos) = @_ ;

    ## Ensure data structure exists for this option.
    unless (defined $s->{opts}{$opt}) {
    &_set_default_option($s, $opt);
    }

    ## Process the option.
    if ($opt_request eq "\376") { # DONT
    &_negotiate_recv_disable($self, $s, $opt, "dont", $opt_bufpos,
        $s->{opts}{$opt}{local_enable_ok},
        \$s->{opts}{$opt}{local_enabled},
        \$s->{opts}{$opt}{local_state});
    }
}

```

```

    elsif ($opt_request eq "\375") { # DO
&_negotiate_recv_enable($self, $s, $opt, "do", $opt_bufpos,
    $s->{opts}{$opt}{local_enable_ok},
    \ $s->{opts}{$opt}{local_enabled},
    \ $s->{opts}{$opt}{local_state});
    }
    elsif ($opt_request eq "\374") { # WONT
&_negotiate_recv_disable($self, $s, $opt, "wont", $opt_bufpos,
    $s->{opts}{$opt}{remote_enable_ok},
    \ $s->{opts}{$opt}{remote_enabled},
    \ $s->{opts}{$opt}{remote_state});
    }
    elsif ($opt_request eq "\373") { # WILL
&_negotiate_recv_enable($self, $s, $opt, "will", $opt_bufpos,
    $s->{opts}{$opt}{remote_enable_ok},
    \ $s->{opts}{$opt}{remote_enabled},
    \ $s->{opts}{$opt}{remote_state});
    }
    else { # internal error
die;
    }

    1;
} # end sub _negotiate_recv

sub _negotiate_recv_disable {
    my ($self, $s, $opt, $opt_request,
    $opt_bufpos, $enable_ok, $is_enabled, $state) = @_ ;
    my (
    $ack,
    $disable_cmd,
    $enable_cmd,
    $is_remote,
    $nak,
    $was_enabled,
    );

    ## What do we use to request enable/disable or respond with ack/nak.
    if ($opt_request eq "wont") {
    $enable_cmd = "\377\375" . pack("C", $opt); # do command
    $disable_cmd = "\377\376" . pack("C", $opt); # dont command
    $is_remote = 1;
    $ack = "DO";
    $nak = "DONT";

    &_log_option($s->{opt_log}, "RCVD", "WONT", $opt)
        if $s->{opt_log};

```

```

    }
    elsif ($opt_request eq "dont") {
$enable_cmd = "\377\373" . pack("C", $opt); # will command
$disable_cmd = "\377\374" . pack("C", $opt); # wont command
$sis_remote = "";
$ack = "WILL";
$nak = "WONT";

&_log_option($s->{opt_log}, "RCVD", "DONT", $opt)
    if $s->{opt_log};
    }
    else { # internal error
die;
    }

    ## Respond to WONT or DONT based on the current negotiation state.
    if ($$state eq "no") { # state is already disabled
    }
    elsif ($$state eq "yes") { # they're initiating disable
$$sis_enabled = "";
$$state = "no";

    ## Send positive acknowledgment.
    $s->{unsent_opts} .= $disable_cmd;
    &_log_option($s->{opt_log}, "SENT", $nak, $opt)
        if $s->{opt_log};

    ## Invoke callbacks.
    &_negotiate_callback($self, $opt, $sis_remote,
        $$sis_enabled, $was_enabled, $opt_bufpos);
    }
    elsif ($$state eq "wantno") { # they sent positive ack
$$sis_enabled = "";
$$state = "no";

    ## Invoke callback.
    &_negotiate_callback($self, $opt, $sis_remote,
        $$sis_enabled, $was_enabled, $opt_bufpos);
    }
    elsif ($$state eq "wantno opposite") { # pos ack but we changed our mind
    ## Indicate disabled but now we want to enable.
    $$sis_enabled = "";
    $$state = "wantyes";

    ## Send queued request.
    $s->{unsent_opts} .= $enable_cmd;
    &_log_option($s->{opt_log}, "SENT", $ack, $opt)
        if $s->{opt_log};

```

```

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
}
elseif ($$state eq "wantyes") { # they sent negative ack
$$is_enabled = "";
$$state = "no";

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
}
elseif ($$state eq "wantyes opposite") { # nak but we changed our mind
$$is_enabled = "";
$$state = "no";

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
}
} # end sub _negotiate_recv_disable

sub _negotiate_recv_enable {
    my ($self, $s, $opt, $opt_request,
        $opt_bufpos, $enable_ok, $is_enabled, $state) = @_ ;
    my (
        $ack,
        $disable_cmd,
        $enable_cmd,
        $is_remote,
        $nak,
        $was_enabled,
    );

    ## What we use to send enable/disable request or send ack/nak response.
    if ($opt_request eq "will") {
        $enable_cmd = "\377\375" . pack("C", $opt); # do command
        $disable_cmd = "\377\376" . pack("C", $opt); # dont command
        $is_remote = 1;
        $ack = "DO";
        $nak = "DONT";

        &_log_option($s->{opt_log}, "RCVD", "WILL", $opt)
            if $s->{opt_log};
    }
    elseif ($opt_request eq "do") {

```

```

$enable_cmd = "\377\373" . pack("C", $opt); # will command
$disable_cmd = "\377\374" . pack("C", $opt); # wont command
$sis_remote = "";
$ack = "WILL";
$nak = "WONT";

&_log_option($s->{opt_log}, "RCVD", "DO", $opt)
    if $s->{opt_log};
    }
    else { # internal error
die;
    }

## Save current enabled state.
$was_enabled = $$sis_enabled;

## Respond to WILL or DO based on the current negotiation state.
if ($$state eq "no") { # they're initiating enable
if ($enable_ok) { # we agree they/us should enable
    $$sis_enabled = 1;
    $$state = "yes";

## Send positive acknowledgment.
    $s->{unsent_opts} .= $enable_cmd;
    &_log_option($s->{opt_log}, "SENT", $ack, $opt)
if $s->{opt_log};

## Invoke callbacks.
    &_negotiate_callback($self, $opt, $sis_remote,
        $$sis_enabled, $was_enabled, $opt_bufpos);
    }
else { # we disagree they/us should enable
## Send negative acknowledgment.
    $s->{unsent_opts} .= $disable_cmd;
    &_log_option($s->{opt_log}, "SENT", $nak, $opt)
if $s->{opt_log};
    }
    }
elseif ($$state eq "yes") { # state is already enabled
    }
elseif ($$state eq "wantno") { # error: our disable req answered by enable
$sis_enabled = "";
$$state = "no";

## Invoke callbacks.
&_negotiate_callback($self, $opt, $sis_remote,
    $$sis_enabled, $was_enabled, $opt_bufpos);
    }

```

```

    elsif ($$state eq "wantno opposite") { # err: disable req answerd by enable
    $$sis_enabled = 1;
    $$state = "yes";

## Invoke callbacks.
    &_negotiate_callback($self, $opt, $sis_remote,
        $$sis_enabled, $was_enabled, $opt_bufpos);
    }
    elsif ($$state eq "wantyes") { # they sent pos ack
    $$sis_enabled = 1;
    $$state = "yes";

## Invoke callback.
    &_negotiate_callback($self, $opt, $sis_remote,
        $$sis_enabled, $was_enabled, $opt_bufpos);
    }
    elsif ($$state eq "wantyes opposite") { # pos ack but we changed our mind
## Indicate enabled but now we want to disable.
    $$sis_enabled = 1;
    $$state = "wantno";

## Inform other side we changed our mind.
    $s->{unsent_opts} .= $disable_cmd;
    &_log_option($s->{opt_log}, "SENT", $nak, $opt)
        if $s->{opt_log};

## Invoke callback.
    &_negotiate_callback($self, $opt, $sis_remote,
        $$sis_enabled, $was_enabled, $opt_bufpos);
    }

    1;
} # end sub _negotiate_rcv_enable

sub _new_handle {
    if ($INC{"IO/Handle.pm"}) {
    return IO::Handle->new;
    }
    else {
    require FileHandle;
    return FileHandle->new;
    }
} # end sub _new_handle

sub _next_getlines {
    my ($self, $s) = @_;
```

```

    my (
    $len,
    $line,
    $pos,
    @lines,
    );

    ## Fill buffer and get first line.
    $line = $self->getline
or return;
    push @lines, $line;

    ## Extract subsequent lines from buffer.
    while (($pos = index($s->{buf}, $s->{rs})) != -1) {
    $len = $pos + length $s->{rs};
    push @lines, substr($s->{buf}, 0, $len);
    substr($s->{buf}, 0, $len) = "";
    }

    @lines;
} # end sub _next_getlines

sub _opt_accept {
    my ($self, @args) = @_;
    my (
    $arg,
    $option,
    $s,
    );

    ## Init.
    $s = *$self->{net_telnet};

    foreach $arg (@args) {
    ## Ensure data structure defined for this option.
    $option = $arg->{option};
    if (!defined $s->{opts}{$option}) {
        &_set_default_option($s, $option);
    }

    ## Save whether we'll accept or reject this option.
    if ($arg->{is_remote}) {
        $s->{opts}{$option}{remote_enable_ok} = $arg->{is_enable};
    }
    else {
        $s->{opts}{$option}{local_enable_ok} = $arg->{is_enable};
    }
}

```



```

    }

    1;
} # end sub _opt_accept

sub _optimal_blksize {
    my ($blksize) = @_ ;
    local $^W = ""; # avoid non-numeric warning for ms-windows blksize of ""

    ## Use default when block size is invalid.
    return 8192
unless defined $blksize and $blksize >= 1 and $blksize <= 1_048_576;

    $blksize;
} # end sub _optimal_blksize

sub _parse_cmd_remove_mode {
    my ($self, $mode) = @_ ;

    if (!defined $mode) {
        $mode = 0;
    }
    elsif ($mode =~ /^s*auto\s*$/i) {
        $mode = "auto";
    }
    elsif ($mode !~ /^d+$/i) {
        &_carp($self, "ignoring bad Cmd_remove_mode " .
            "argument \"$mode\": it's not \"auto\" or a " .
            "non-negative integer");
        $mode = *$self->{net_telnet}{cmd_rm_mode};
    }

    $mode;
} # end sub _parse_cmd_remove_mode

sub _parse_errmode {
    my ($self, $errmode) = @_ ;

    ## Set the error mode.
    if (!defined $errmode) {
        &_carp($self, "ignoring undefined Errmode argument");
        $errmode = *$self->{net_telnet}{errormode};
    }
    elsif ($errmode =~ /^s*return\s*$/i) {
        $errmode = "return";
    }

```

```

    }
    elsif ($errmode =~ /^s*die\s*/i) {
$errmode = "die";
    }
    elsif (ref($errmode) eq "CODE") {
    }
    elsif (ref($errmode) eq "ARRAY") {
unless (ref($errmode->[0]) eq "CODE") {
    &_carp($self, "ignoring bad Errmode argument: " .
    "first list item isn't a code ref");
    $errmode = *$self->{net_telnet}{errormode};
}
}
    else {
&_carp($self, "ignoring bad Errmode argument \"$errmode\");
$errmode = *$self->{net_telnet}{errormode};
}

    $errmode;
} # end sub _parse_errmode

sub _parse_input_record_separator {
    my ($self, $rs) = @_ ;

    unless (defined $rs and length $rs) {
&_carp($self, "ignoring null Input_record_separator argument");
$rs = *$self->{net_telnet}{rs};
    }

    $rs;
} # end sub _parse_input_record_separator

sub _parse_prompt {
    my ($self, $prompt) = @_ ;

    unless (defined $prompt) {
$prompt = "";
    }

    unless ($prompt =~ m(^s*/) or $prompt =~ m(^s*m\s*\W)) {
&_carp($self, "ignoring bad Prompt argument \"$prompt\": " .
    "missing opening delimiter of match operator");
$prompt = *$self->{net_telnet}{cmd_prompt};
    }

    $prompt;
}

```

```

} # end sub _parse_prompt

sub _parse_timeout {
    my ($self, $timeout) = @_;

    ## Ensure valid timeout.
    if (defined $timeout) {
    ## Test for non-numeric or negative values.
    eval {
        local $SIG{"__DIE__"} = "DEFAULT";
        local $SIG{"__WARN__"} = sub { die "non-numeric\n" };
        local $^W = 1;
        $timeout *= 1;
    };
    if ($@) { # timeout arg is non-numeric
        &_carp($self,
            "ignoring non-numeric Timeout argument \"$timeout\"");
        $timeout = *$self->{net_telnet}{time_out};
    }
    elsif ($timeout < 0) { # timeout arg is negative
        &_carp($self, "ignoring negative Timeout argument \"$timeout\"");
        $timeout = *$self->{net_telnet}{time_out};
    }
    }

    $timeout;
} # end sub _parse_timeout

sub _put {
    my ($self, $buf, $subname) = @_;
    my (
    $endtime,
    $len,
    $nfound,
    $nwrote,
    $offset,
    $ready,
    $$,
    $timed_out,
    $timeout,
    $zero_wrote_count,
    );

    ## Init.
    $$ = *$self->{net_telnet};
    $$->{num_wrote} = 0;

```

```

$zero_wrote_count = 0;
$offset = 0;
$len = length $$buf;
$endtime = &_endtime($s->{time_out});

return $self->error("write error: filehandle isn't open")
unless $s->{opened};

## Try to send any waiting option negotiation.
if (length $s->{unsent_opts}) {
&_flush_opts($self);
}

## Write until all data blocks written.
while ($len) {
## Determine how long to wait for output ready.
($timed_out, $timeout) = &_timeout_interval($endtime);
if ($timed_out) {
    $s->{timedout} = 1;
    return $self->error("$subname timed-out");
}

## Wait for output ready.
$nfound = select "", $ready=$s->{fdmask}, "", $timeout;

## Handle any errors while waiting.
if (!defined $nfound or $nfound <= 0) { # output not ready
    if (defined $nfound and $nfound == 0) { # timed-out
        $s->{timedout} = 1;
        return $self->error("$subname timed-out");
    }
    else { # error waiting for output ready
        next if $! =~ /^interrupted/i;
    }
}

$s->{opened} = "";
return $self->error("write error: $!");
}

## Write the data.
$nwrote = syswrite $self, $$buf, $len, $offset;

## Handle any write errors.
if (!defined $nwrote) { # write failed
    next if $! =~ /^interrupted/i; # restart interrupted syscall
}

$s->{opened} = "";
return $self->error("write error: $!");

```

```

}
elsif ($nwrote == 0) { # zero chars written
    ## Try ten more times to write the data.
    if ($zero_wrote_count++ <= 10) {
&_sleep(0.01);
next;
    }

    $s->{opened} = "";
    return $self->error("write error: zero length write: $!");
}

## Display network traffic if requested.
if ($s->{dumplog}) {
    &_log_dump('>', $s->{dumplog}, $buf, $offset, $nwrote);
}

## Increment.
$s->{num_wrote} += $nwrote;
$offset += $nwrote;
$len -= $nwrote;
}

1;
} # end sub _put

sub _qualify_fh {
    my ($obj, $name) = @_;
    my (
$user_class,
);
    local $_;

    ## Get user's package name.
    ($user_class) = &_user_caller($obj);

    ## Ensure name is qualified with a package name.
    $name = qualify($name, $user_class);

    ## If it's not already, make it a typeglob ref.
    if (!ref $name) {
no strict;
local $^W = 0;

$name =~ s/^\*+//;
$name = eval "\"\*$name\"";
return unless ref $name;

```

```

}

$name;
} # end sub _qualify_fh

sub _reset_options {
    my ($opts) = @_ ;
    my (
    $opt,
    );

    foreach $opt (keys %$opts) {
    $opts->{$opt}{remote_enabled} = "";
    $opts->{$opt}{remote_state} = "no";
    $opts->{$opt}{local_enabled} = "";
    $opts->{$opt}{local_state} = "no";
    }

    1;
} # end sub _reset_options

sub _save_lastline {
    my ($s) = @_ ;
    my (
    $firstpos,
    $lastpos,
    $len_w_sep,
    $len_wo_sep,
    $offset,
    );
    my $rs = "\n";

    if (($lastpos = rindex $s->{buf}, $rs) > -1) { # eol found
    while (1) {
        ## Find beginning of line.
        $firstpos = rindex $s->{buf}, $rs, $lastpos - 1;
        if ($firstpos == -1) {
            $offset = 0;
        }
        else {
            $offset = $firstpos + length $rs;
        }

        ## Determine length of line with and without separator.
        $len_wo_sep = $lastpos - $offset;
        $len_w_sep = $len_wo_sep + length $rs;
    }
}

```

```

    ## Save line if it's not blank.
    if (substr($s->{buf}, $offset, $len_wo_sep)
!~ /\s*$/)
    {
    $s->{last_line} = substr($s->{buf},
        $offset,
        $len_w_sep);
    last;
    }

    last if $firstpos == -1;

    $lastpos = $firstpos;
}
}

1;
} # end sub _save_lastline

sub _set_default_option {
    my ($s, $option) = @_ ;

    $s->{opts}{$option} = {
    remote_enabled => "",
    remote_state   => "no",
    remote_enable_ok => "",
    local_enabled  => "",
    local_state    => "no",
    local_enable_ok => "",
    };
} # end sub _set_default_option

sub _sleep {
    my ($secs) = @_ ;
    my $bitmask = "";
    local *SOCK;

    socket SOCK, AF_INET, SOCK_STREAM, 0;
    vec($bitmask, fileno(SOCK), 1) = 1;
    select $bitmask, "", "", $secs;
    CORE::close SOCK;

    1;
} # end sub _sleep

```

```

sub _timeout_interval {
    my ($endtime) = @_;
    my (
    $timeout,
    );

    ## Return timed-out boolean and timeout interval.
    if (defined $endtime) {
    ## Is it a one-time poll.
    return ("", 0) if $endtime == 0;

    ## Calculate the timeout interval.
    $timeout = $endtime - time;

    ## Did we already timeout.
    return (1, 0) unless $timeout > 0;

    return ("", $timeout);
    }
    else { # there is no timeout
    return ("", undef);
    }
} # end sub _timeout_interval

sub _user_caller {
    my ($obj) = @_;
    my (
    $class,
    $curr_pkg,
    $file,
    $i,
    $line,
    $pkg,
    %isa,
    @isa,
    );
    local $_;

    ## Create a boolean hash to test for isa. Make sure current
    ## package and the object's class are members.
    $class = ref $obj;
    @isa = eval "\@${class}::ISA";
    push @isa, $class;
    ($curr_pkg) = caller 1;
    push @isa, $curr_pkg;
    %isa = map { $_ => 1 } @isa;

```



```

## Search back in call frames for a package that's not in isa.
$i = 1;
while (($pkg, $file, $line) = caller ++$i) {
next if $isa{$pkg};

return ($pkg, $file, $line);
}

## If not found, choose outer most call frame.
($pkg, $file, $line) = caller --$i;
return ($pkg, $file, $line);
} # end sub _user_caller

sub _verify_telopt_arg {
my ($self, $option, $argname) = @_ ;

## If provided, use argument name in error message.
if (defined $argname) {
$argname = "for arg $argname";
}
else {
$argname = "";
}

## Ensure telnet option is a non-negative integer.
eval {
local $SIG{"__DIE__"} = "DEFAULT";
local $SIG{"__WARN__"} = sub { die "non-numeric\n" };
local $^W = 1;
$option = abs(int $option);
};
return $self->error("bad telnet option $argname: non-numeric")
if $@;

return $self->error("bad telnet option $argname: option > 255")
unless $option <= 255;

$option;
} # end sub _verify_telopt_arg

##### Exported Constants #####

sub TELNET_IAC () {255}; # interpret as command:
sub TELNET_DONT () {254}; # you are not to use option

```

```

sub TELNET_DO () {253}; # please, you use option
sub TELNET_WONT () {252}; # I won't use option
sub TELNET_WILL () {251}; # I will use option
sub TELNET_SB () {250}; # interpret as subnegotiation
sub TELNET_GA () {249}; # you may reverse the line
sub TELNET_EL () {248}; # erase the current line
sub TELNET_EC () {247}; # erase the current character
sub TELNET_AYT () {246}; # are you there
sub TELNET_AO () {245}; # abort output--but let prog finish
sub TELNET_IP () {244}; # interrupt process--permanently
sub TELNET_BREAK () {243}; # break
sub TELNET_DM () {242}; # data mark--for connect. cleaning
sub TELNET_NOP () {241}; # nop
sub TELNET_SE () {240}; # end sub negotiation
sub TELNET_EOR () {239}; # end of record (transparent mode)
sub TELNET_ABORT () {238}; # Abort process
sub TELNET_SUSP () {237}; # Suspend process
sub TELNET_EOF () {236}; # End of file
sub TELNET_SYNCH () {242}; # for telfunc calls

sub TELOPT_BINARY () {0}; # Binary Transmission
sub TELOPT_ECHO () {1}; # Echo
sub TELOPT_RCP () {2}; # Reconnection
sub TELOPT_SGA () {3}; # Suppress Go Ahead
sub TELOPT_NAMS () {4}; # Approx Message Size Negotiation
sub TELOPT_STATUS () {5}; # Status
sub TELOPT_TM () {6}; # Timing Mark
sub TELOPT_RCTE () {7}; # Remote Controlled Trans and Echo
sub TELOPT_NAOL () {8}; # Output Line Width
sub TELOPT_NAOP () {9}; # Output Page Size
sub TELOPT_NAOCRD () {10}; # Output Carriage-Return Disposition
sub TELOPT_NAOHTS () {11}; # Output Horizontal Tab Stops
sub TELOPT_NAOHTD () {12}; # Output Horizontal Tab Disposition
sub TELOPT_NAOFFD () {13}; # Output Formfeed Disposition
sub TELOPT_NAOVTS () {14}; # Output Vertical Tabstops
sub TELOPT_NAOVTD () {15}; # Output Vertical Tab Disposition
sub TELOPT_NAOLFD () {16}; # Output Linefeed Disposition
sub TELOPT_XASCII () {17}; # Extended ASCII
sub TELOPT_LOGOUT () {18}; # Logout
sub TELOPT_BM () {19}; # Byte Macro
sub TELOPT_DET () {20}; # Data Entry Terminal
sub TELOPT_SUPDUP () {21}; # SUPDUP
sub TELOPT_SUPDUPOUTPUT () {22}; # SUPDUP Output
sub TELOPT_SNDLOC () {23}; # Send Location
sub TELOPT_TTYPE () {24}; # Terminal Type
sub TELOPT_EOR () {25}; # End of Record
sub TELOPT_TUID () {26}; # TACACS User Identification
sub TELOPT_OUTMRK () {27}; # Output Marking

```

```
sub TELOPT_TTYLOC () {28}; # Terminal Location Number
sub TELOPT_3270REGIME () {29}; # Telnet 3270 Regime
sub TELOPT_X3PAD () {30}; # X.3 PAD
sub TELOPT_NAWS () {31}; # Negotiate About Window Size
sub TELOPT_TSPEED () {32}; # Terminal Speed
sub TELOPT_LFLOW () {33}; # Remote Flow Control
sub TELOPT_LINEMODE () {34}; # Linemode
sub TELOPT_XDISPLOC () {35}; # X Display Location
sub TELOPT_OLD_ENVIRON () {36}; # Environment Option
sub TELOPT_AUTHENTICATION () {37}; # Authentication Option
sub TELOPT_ENCRYPT () {38}; # Encryption Option
sub TELOPT_NEW_ENVIRON () {39}; # New Environment Option
sub TELOPT_EXOPL () {255}; # Extended-Options-List
```

```
1;
__END__;
```

```
##### User Documentation #####
```

```
## To format the following documentation into a more readable format,
## use one of these programs: perldoc; pod2man; pod2html; pod2text.
## For example, to nicely format this documentation for printing, you
## may use pod2man and groff to convert to postscript:
## pod2man Net/Telnet.pm | groff -man -Tps > Net::Telnet.ps
```

```
=head1 NAME
```

```
Net::Telnet - interact with TELNET port or other TCP ports
```

```
=head1 SYNOPSIS
```

```
C<use Net::Telnet (> < >
```

```
see METHODS section below
```

```
=head1 DESCRIPTION
```

Net::Telnet allows you to make client connections to a TCP port and do network I/O, especially to a port using the TELNET protocol. Simple I/O methods such as print, get, and getline are provided. More sophisticated interactive features are provided because connecting to a TELNET port ultimately means communicating with a program designed for human interaction. These interactive features include the ability to specify a time-out and to wait for patterns to appear in the input stream, such as the prompt from a shell.

Other reasons to use this module than strictly with a TELNET port are:

=over 2

=item \*

You're not familiar with sockets and you want a simple way to make client connections to TCP services.

=item \*

You want to be able to specify your own time-out while connecting, reading, or writing.

=item \*

You're communicating with an interactive program at the other end of some socket or pipe and you want to wait for certain patterns to appear.

=back

Here's an example that prints who's logged-on to the remote host sparky. In addition to a username and password, you must also know the user's shell prompt, which for this example is C<bash\$>

```
use Net::Telnet ();
$t = new Net::Telnet (Timeout => 10,
                    Prompt => '/bash\$ $/');
$t->open("sparky");
$t->login($username, $passwd);
@lines = $t->cmd("who");
print @lines;
```

More examples are in the B<EXAMPLES> section below.

Usage questions should be directed to the Usenet newsgroup comp.lang.perl.modules.

Contact me, Jay Rogers <jay@rgrs.com>, if you find any bugs or have suggestions for improvement.

=head2 What To Know Before Using

=over 2

=item \*

All output is flushed while all input is buffered. Each object contains its own input buffer.

=item \*

The output record separator for C<print()> and C<cmd()> is set to C<"\n"> by default, so that you don't have to append all your commands with a newline. To avoid printing a trailing C<"\n"> use C<put()> or set the I<output\_record\_separator> to C<"">.

=item \*

The methods C<login()> and C<cmd()> use the I<prompt> setting in the object to determine when a login or remote command is complete. Those methods will fail with a time-out if you don't set the prompt correctly.

=item \*

Use a combination of C<print()> and C<waitfor()> as an alternative to C<login()> or C<cmd()> when they don't do what you want.

=item \*

Errors such as timing-out are handled according to the error mode action. The default action is to print an error message to standard error and have the program die. See the C<errmode()> method for more information.

=item \*

When constructing the match operator argument for C<prompt()> or C<waitfor()>, always use single quotes instead of double quotes to avoid unexpected backslash interpretation (e.g. C<'/bash\\$\ \$/'>). If you're constructing a DOS like file path, you'll need to use four backslashes to represent one (e.g. C<'/c:\\\\users\\\\billE<gt;\$'i'>).

Of course don't forget about regexp metacharacters like C<.>, C<[>, or C<\$>. You'll only need a single backslash to quote them. The anchor metacharacters C<^> and C<\$> refer to positions in the input buffer. To avoid matching characters read that look like a prompt, it's a good idea to end your prompt pattern with the C<\$> anchor. That way the prompt will only match if it's the last thing read.

=item \*

In the input stream, each sequence of I<carriage return> and I<line

feed> (i.e. C<"\015\012"> or CR LF) is converted to C<"\n">. In the output stream, each occurrence of C<"\n"> is converted to a sequence of CR LF. See C<binmode()> to change the behavior. TCP protocols typically use the ASCII sequence, carriage return and line feed to designate a newline.

=item \*

Timing-out while making a connection is disabled for machines that don't support the C<alarm()> function. Most notably these include MS-Windows machines.

=item \*

You'll need to be running at least Perl version 5.002 to use this module. This module does not require any libraries that don't already come with a standard Perl distribution.

If you have the IO:: libraries installed (they come standard with perl5.004 and later) then IO::Socket::INET is used as a base class, otherwise FileHandle is used.

=item \*

Contact me, Jay Rogers <jay@rgrs.com>, if you find any bugs or have suggestions for improvement.

=back

=head2 Debugging

The typical usage bug causes a time-out error because you've made incorrect assumptions about what the remote side actually sends. The easiest way to reconcile what the remote side sends with your expectations is to use C<input\_log()> or C<dump\_log()>.

C<dump\_log()> allows you to see the data being sent from the remote side before any translation is done, while C<input\_log()> shows you the results after translation. The translation includes converting end of line characters, removing and responding to TELNET protocol commands in the data stream.

=head2 Style of Named Parameters

Two different styles of named parameters are supported. This document only shows the IO:: style:

```
Net::Telnet->new(Timeout => 20);
```

however the dash-option style is also allowed:

```
Net::Telnet->new(-timeout => 20);
```

## =head2 Connecting to a Remote MS-Windows Machine

By default MS-Windows doesn't come with a TELNET server. However third party TELNET servers are available. Unfortunately many of these servers falsely claim to be a TELNET server. This is especially true of the so-called "Microsoft Telnet Server" that comes installed with some newer versions MS-Windows.

When a TELNET server first accepts a connection, it must use the ASCII control characters carriage-return and line-feed to start a new line (see RFC854). A server like the "Microsoft Telnet Server" that doesn't do this, isn't a TELNET server. These servers send ANSI terminal escape sequences to position to a column on a subsequent line and to even position while writing characters that are adjacent to each other. Worse, when sending output these servers resend previously sent command output in a misguided attempt to display an entire terminal screen.

Connecting Net::Telnet to one of these false TELNET servers makes your job of parsing command output very difficult. It's better to replace a false TELNET server with a real TELNET server. The better TELNET servers for MS-Windows allow you to avoid the ANSI escapes by turning off something some of them call I<console mode>.

## =head1 METHODS

In the calling sequences below, square brackets B<[]> represent optional parameters.

=over 4

=item B<new> - create a new Net::Telnet object

```
$obj = new Net::Telnet ([ $host ] );
```

```
$obj = new Net::Telnet ([ Binmode => $mode, ]  
                      [ Cmd_remove_mode => $mode, ]  
                      [ Dump_Log => $filename, ]  
                      [ Errmode => $errmode, ]  
                      [ Fhopen => $filehandle, ]  
                      [ Host => $host, ]  
                      [ Input_log => $file, ]
```

```

[Input_record_separator => $chars,]
[Option_log => $file,]
[Ors    => $chars,]
[Output_log => $file,]
[Output_record_separator => $chars,]
[Port    => $port,]
[Prompt  => $matchop,]
[Rs      => $chars,]
[Telnetmode => $mode,]
[Timeout => $secs,]);

```

This is the constructor for Net::Telnet objects. A new object is returned on success, the error mode action is performed on failure - see C<errmode()>. The optional arguments are short-cuts to methods of the same name.

If the I<\$host> argument is given then the object is opened by connecting to TCP I<\$port> on I<\$host>. Also see C<open()>. The new object returned is given the following defaults in the absence of corresponding named parameters:

=over 4

=item

The default I<Host> is C<"localhost">

=item

The default I<Port> is C<23>

=item

The default I<Prompt> is C<'/[\\$%#E<gt>] \$/'>

=item

The default I<Timeout> is C<10>

=item

The default I<Errmode> is C<"die">

=item

The default I<Output\_record\_separator> is C<"\n">. Note that I<Ors> is synonymous with I<Output\_record\_separator>.



=item

The default I<Input\_record\_separator> is C<"\n">. Note that I<Rs> is synonymous with I<Input\_record\_separator>.

=item

The default I<Binmode> is C<0>, which means do newline translation.

=item

The default I<Telnetmode> is C<1>, which means respond to TELNET commands in the data stream.

=item

The default I<Cmd\_remove\_mode> is C<"auto">

=item

The defaults for I<Dump\_log>, I<Input\_log>, I<Option\_log>, and I<Output\_log> are C<"">, which means that logging is turned-off.

=back

=back

=over 4

=item B<binmode> - toggle newline translation

```
$mode = $obj->binmode;
```

```
$prev = $obj->binmode($mode);
```

This method controls whether or not sequences of carriage returns and line feeds (CR LF or more specifically C<"\015\012">) are translated. By default they are translated (i.e. binmode is C<0>).

If no argument is given, the current mode is returned.

If I<\$mode> is C<1> then binmode is I<on> and newline translation is not done.

If I<\$mode> is C<0> then binmode is I<off> and newline translation is done. In the input stream, each sequence of CR LF is converted to C<"\n"> and in the output stream, each occurrence of C<"\n"> is

converted to a sequence of CR LF.

Note that input is always buffered. Changing binmode doesn't effect what's already been read into the buffer. Output is not buffered and changing binmode will have an immediate effect.

=back

=over 4

=item B<break> - send TELNET break character

```
$ok = $obj->break;
```

This method sends the TELNET break character. This character is provided because it's a signal outside the ASCII character set which is currently given local meaning within many systems. It's intended to indicate that the Break Key or the Attention Key was hit.

This method returns C<1> on success, or performs the error mode action on failure.

=back

=over 4

=item B<buffer> - scalar reference to object's input buffer

```
$ref = $obj->buffer;
```

This method returns a scalar reference to the input buffer for I<\$obj>. Data in the input buffer is data that has been read from the remote side but has yet to be read by the user. Modifications to the input buffer are returned by a subsequent read.

=back

=over 4

=item B<buffer\_empty> - discard all data in object's input buffer

```
$obj->buffer_empty;
```

This method removes all data in the input buffer for I<\$obj>.

=back

=over 4

=item B<close> - close object

```
$ok = $obj->close;
```

This method closes the socket, file, or pipe associated with the object. It always returns a value of C<1>.

=back

=over 4

=item B<cmd> - issue command and retrieve output

```
$ok = $obj->cmd($string);  
$ok = $obj->cmd(String => $string,  
    [Output => $ref,]  
    [Cmd_remove_mode => $mode,]  
    [Errmode => $mode,]  
    [Input_record_separator => $chars,]  
    [Ors => $chars,]  
    [Output_record_separator => $chars,]  
    [Prompt => $match,]  
    [Rs => $chars,]  
    [Timeout => $secs,]);
```

```
@output = $obj->cmd($string);  
@output = $obj->cmd(String => $string,  
    [Output => $ref,]  
    [Cmd_remove_mode => $mode,]  
    [Errmode => $mode,]  
    [Input_record_separator => $chars,]  
    [Ors => $chars,]  
    [Output_record_separator => $chars,]  
    [Prompt => $match,]  
    [Rs => $chars,]  
    [Timeout => $secs,]);
```

This method sends the command I<\$string>, and reads the characters sent back by the command up until and including the matching prompt. It's assumed that the program to which you're sending is some kind of command prompting interpreter such as a shell.

The command `I<$string>` is automatically appended with the `output_record_separator`. By default that's `C<"\n">`. This is similar to someone typing a command and hitting the return key. Set the `output_record_separator` to change this behavior.

In a scalar context, the characters read from the remote side are discarded and `C<1>` is returned on success. On time-out, eof, or other failures, the error mode action is performed. See `C<errmode(>>`.

In a list context, just the output generated by the command is returned, one line per element. In other words, all the characters in between the echoed back command string and the prompt are returned. If the command happens to return no output, a list containing one element, the empty string is returned. This is so the list will indicate true in a boolean context. On time-out, eof, or other failures, the error mode action is performed. See `C<errmode(>>`.

The characters that matched the prompt may be retrieved using `C<last_prompt(>>`.

Many command interpreters echo back the command sent. In most situations, this method removes the first line returned from the remote side (i.e. the echoed back command). See `C<cmd_remove_mode(>>` for more control over this feature.

Use `C<dump_log(>>` to debug when this method keeps timing-out and you don't think it should.

Consider using a combination of `C<print(>>` and `C<waitfor(>>` as an alternative to this method when it doesn't do what you want, e.g. the command you send prompts for input.

The `I<Output>` named parameter provides an alternative method of receiving command output. If you pass a scalar reference, all the output (even if it contains multiple lines) is returned in the referenced scalar. If you pass an array or hash reference, the lines of output are returned in the referenced array or hash. You can use `C<input_record_separator(>>` to change the notion of what separates a line.

Optional named parameters are provided to override the current settings of `cmd_remove_mode`, `errmode`, `input_record_separator`, `ors`, `output_record_separator`, `prompt`, `rs`, and `timeout`. `Rs` is synonymous with `input_record_separator` and `ors` is synonymous with `output_record_separator`.

=back

=over 4

=item B<cmd\_remove\_mode> - toggle removal of echoed commands

```
$mode = $obj->cmd_remove_mode;
```

```
$prev = $obj->cmd_remove_mode($mode);
```

This method controls how to deal with echoed back commands in the output returned by `cmd()`. Typically, when you send a command to the remote side, the first line of output returned is the command echoed back. Use this mode to remove the first line of output normally returned by `cmd()`.

If no argument is given, the current mode is returned.

If I<\$mode> is C<0> then the command output returned from `cmd()` has no lines removed. If I<\$mode> is a positive integer, then the first I<\$mode> lines of command output are stripped.

By default, I<\$mode> is set to C<"auto">. Auto means that whether or not the first line of command output is stripped, depends on whether or not the remote side offered to echo. By default, Net::Telnet always accepts an offer to echo by the remote side. You can change the default to reject such an offer using C<option\_accept()>.

A warning is printed to `STDERR` when attempting to set this attribute to something that's not C<"auto"> or a non-negative integer.

=back

=over 4

=item B<dump\_log> - log all I/O in dump format

```
$fh = $obj->dump_log;
```

```
$fh = $obj->dump_log($fh);
```

```
$fh = $obj->dump_log($filename);
```

This method starts or stops dump format logging of all the object's input and output. The dump format shows the blocks read and written in a hexadecimal and printable character format. This method is useful when debugging, however you might want to first try C<input\_log()> as it's more readable.

If no argument is given, the current log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

=back

=over 4

=item B<eof> - end of file indicator

```
$eof = $obj->eof;
```

This method returns C<1> if end of file has been read, otherwise it returns an empty string. Because the input is buffered this isn't the same thing as I<\$obj> has closed. In other words I<\$obj> can be closed but there still can be stuff in the buffer to be read. Under this condition you can still read but you won't be able to write.

=back

=over 4

=item B<errmode> - define action to be performed on error

```
$mode = $obj->errmode;
```

```
$prev = $obj->errmode($mode);
```

This method gets or sets the action used when errors are encountered using the object. The first calling sequence returns the current error mode. The second calling sequence sets it to I<\$mode> and returns the previous mode. Valid values for I<\$mode> are C<"die"> (the default), C<"return">, a I<coderef>, or an I<arrayref>.

When mode is C<"die"> and an error is encountered using the object, then an error message is printed to standard error and the program dies.

When mode is C<"return"> then the method generating the error places

an error message in the object and returns an undefined value in a scalar context and an empty list in list context. The error message may be obtained using `C<errmsg()`.

When mode is a `I<coderef>`, then when an error is encountered `I<coderef>` is called with the error message as its first argument. Using this mode you may have your own subroutine handle errors. If `I<coderef>` itself returns then the method generating the error returns undefined or an empty list depending on context.

When mode is an `I<arrayref>`, the first element of the array must be a `I<coderef>`. Any elements that follow are the arguments to `I<coderef>`. When an error is encountered, the `I<coderef>` is called with its arguments. Using this mode you may have your own subroutine handle errors. If the `I<coderef>` itself returns then the method generating the error returns undefined or an empty list depending on context.

A warning is printed to `STDERR` when attempting to set this attribute to something that's not `C<"die">`, `C<"return">`, a `I<coderef>`, or an `I<arrayref>` whose first element isn't a `I<coderef>`.

=back

=over 4

=item B<errmsg> - most recent error message

```
$msg = $obj->errmsg;
```

```
$prev = $obj->errmsg(@msgs);
```

The first calling sequence returns the error message associated with the object. The empty string is returned if no error has been encountered yet. The second calling sequence sets the error message for the object to the concatenation of `I<@msgs>` and returns the previous error message. Normally, error messages are set internally by a method when an error is encountered.

=back

=over 4

=item B<error> - perform the error mode action

```
$obj->error(@msgs);
```

This method concatenates I<@msgs> into a string and places it in the object as the error message. Also see C<errmsg()>. It then performs the error mode action. Also see C<errmode()>.

If the error mode doesn't cause the program to die, then an undefined value or an empty list is returned depending on the context.

This method is primarily used by this class or a sub-class to perform the user requested action when an error is encountered.

=back

=over 4

=item B<fhopen> - use already open filehandle for I/O

```
$ok = $obj->fhopen($fh);
```

This method associates the open filehandle I<\$fh> with I<\$obj> for further I/O. Filehandle I<\$fh> must already be opened.

Suppose you want to use the features of this module to do I/O to something other than a TCP port, for example STDIN or a filehandle opened to read from a process. Instead of opening the object for I/O to a TCP port by using C<open()> or C<new()>, call this method instead.

The value C<1> is returned success, the error mode action is performed on failure.

=back

=over 4

=item B<get> - read block of data

```
$data = $obj->get([Binmode => $mode,]  
                [Errmode  => $errmode,]  
                [Telnetmode => $mode,]  
                [Timeout  => $secs,]);
```

This method reads a block of data from the object and returns it along with any buffered data. If no buffered data is available to return, it will wait for data to read using the timeout specified in the object. You can override that timeout using I<\$secs>. Also see C<timeout()>. If buffered data is available to return, it also checks



for a block of data that can be immediately read.

On eof an undefined value is returned. On time-out or other failures, the error mode action is performed. To distinguish between eof or an error occurring when the error mode is not set to C<"die">, use C<eof()>.

Optional named parameters are provided to override the current settings of binmode, errmode, telnetmode, and timeout.

=back

=over 4

=item B<getline> - read next line

```
$line = $obj->getline([Binmode => $mode,]
                    [Errmode => $errmode,]
                    [Input_record_separator => $chars,]
                    [Rs => $chars,]
                    [Telnetmode => $mode,]
                    [Timeout => $secs,]);
```

This method reads and returns the next line of data from the object. You can use C<input\_record\_separator()> to change the notion of what separates a line. The default is C<"\n">. If a line isn't immediately available, this method blocks waiting for a line or a time-out.

On eof an undefined value is returned. On time-out or other failures, the error mode action is performed. To distinguish between eof or an error occurring when the error mode is not set to C<"die">, use C<eof()>.

Optional named parameters are provided to override the current settings of binmode, errmode, input\_record\_separator, rs, telnetmode, and timeout. Rs is synonymous with input\_record\_separator.

=back

=over 4

=item B<getlines> - read next lines

```
@lines = $obj->getlines([Binmode => $mode,]
                     [Errmode => $errmode,]
```

```

[Input_record_separator => $chars,]
[Rs      => $chars,]
[Telnetmode => $mode,]
[Timeout  => $secs,]
[All      => $boolean,]);

```

This method reads and returns all the lines of data from the object until end of file is read. You can use `C<input_record_separator()>` to change the notion of what separates a line. The default is `C<"\n">`. A time-out error occurs if all the lines can't be read within the time-out interval. See `C<timeout()>`.

The behavior of this method was changed in version 3.03. Prior to version 3.03 this method returned just the lines available from the next read. To get that old behavior, use the optional named parameter `I<All>` and set `I<$boolean>` to `C<"">` or `C<0>`.

If only eof is read then an empty list is returned. On time-out or other failures, the error mode action is performed. Use `C<eof()>` to distinguish between reading only eof or an error occurring when the error mode is not set to `C<"die">`.

Optional named parameters are provided to override the current settings of `binmode`, `errmode`, `input_record_separator`, `rs`, `telnetmode`, and `timeout`. `Rs` is synonymous with `input_record_separator`.

=back

=over 4

=item B<host> - name of remote host

```
$host = $obj->host;
```

```
$prev = $obj->host($host);
```

This method designates the remote host for `C<open()>`. With no argument it returns the current host name set in the object. With an argument it sets the current host name to `I<$host>` and returns the previous host name. You may indicate the remote host using either a hostname or an IP address.

The default value is `C<"localhost">`. It may also be set by `C<open()>` or `C<new()>`.

=back

=over 4

=item B

```
$fh = $obj->input_log;
```

```
$fh = $obj->input_log($fh);
```

```
$fh = $obj->input_log($filename);
```

This method starts or stops logging of input. This is useful when debugging. Also see C<dump\_log()>. Because most command interpreters echo back commands received, it's likely all your output will also be in this log. Note that input logging occurs after newline translation. See C<binmode()> for details on newline translation.

If no argument is given, the log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened for logging and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

=back

=over 4

=item B

```
$chars = $obj->input_record_separator;
```

```
$prev = $obj->input_record_separator($chars);
```

This method designates the line delimiter for input. It's used with C<getline()>, C<getlines()>, and C<cmd()> to determine lines in the input.

With no argument this method returns the current input record separator set in the object. With an argument it sets the input record separator to I<\$chars> and returns the previous value. Note that I<\$chars> must have length.

A warning is printed to STDERR when attempting to set this attribute

to a string with no length.

=back

=over 4

=item B<last\_prompt> - last prompt read

```
$string = $obj->last_prompt;
```

```
$prev = $obj->last_prompt($string);
```

With no argument this method returns the last prompt read by `cmd()` or `login()`. See `C<prompt()`>. With an argument it sets the last prompt read to `I<$string>` and returns the previous value. Normally, only internal methods set the last prompt.

=back

=over 4

=item B<lastline> - last line read

```
$line = $obj->lastline;
```

```
$prev = $obj->lastline($line);
```

This method retrieves the last line read from the object. This may be a useful error message when the remote side abnormally closes the connection. Typically the remote side will print an error message before closing.

With no argument this method returns the last line read from the object. With an argument it sets the last line read to `I<$line>` and returns the previous value. Normally, only internal methods set the last line.

=back

=over 4

=item B<login> - perform standard login

```
$ok = $obj->login($username, $password);
```

```
$ok = $obj->login(Name => $username,  
    Password => $password,  
    [Errmode => $mode,]  
    [Prompt => $match,]  
    [Timeout => $secs,]);
```

This method performs a standard login by waiting for a login prompt and responding with I<\$username>, then waiting for the password prompt and responding with I<\$password>, and then waiting for the command interpreter prompt. If any of those prompts sent by the remote side don't match what's expected, this method will time-out, unless timeout is turned off.

Login prompt must match either of these case insensitive patterns:

```
/login[: ]*$/i  
/username[: ]*$/i
```

Password prompt must match this case insensitive pattern:

```
/password[: ]*$/i
```

The command interpreter prompt must match the current setting of prompt. See C<prompt()>.

Use C<dump\_log()> to debug when this method keeps timing-out and you don't think it should.

Consider using a combination of C<print()> and C<waitfor()> as an alternative to this method when it doesn't do what you want, e.g. the remote host doesn't prompt for a username.

On success, C<1> is returned. On time out, eof, or other failures, the error mode action is performed. See C<errmode()>.

Optional named parameters are provided to override the current settings of errmode, prompt, and timeout.

=back

=over 4

=item B<max\_buffer\_length> - maximum size of input buffer

```
$len = $obj->max_buffer_length;
```

```
$prev = $obj->max_buffer_length($len);
```

This method designates the maximum size of the input buffer. An error is generated when a read causes the buffer to exceed this limit. The default value is 1,048,576 bytes (1MB). The input buffer can grow much larger than the block size when you continuously read using `C<getline()>` or `C<waitfor()>` and the data stream contains no newlines or matching waitfor patterns.

With no argument, this method returns the current maximum buffer length set in the object. With an argument it sets the maximum buffer length to `I<$len>` and returns the previous value. Values of `I<$len>` smaller than 512 will be adjusted to 512.

A warning is printed to `STDERR` when attempting to set this attribute to something that isn't a positive integer.

=back

=over 4

=item B<ofs> - field separator for print

```
$chars = $obj->ofs
```

```
$prev = $obj->ofs($chars);
```

This method is synonymous with `C<output_field_separator()>`.

=back

=over 4

=item B<open> - connect to port on remote host

```
$ok = $obj->open($host);
```

```
$ok = $obj->open([Host => $host,]  
               [Port  => $port,]  
               [Errmode => $mode,]  
               [Timeout => $secs,]);
```

This method opens a TCP connection to `I<$port>` on `I<$host>`. If either argument is missing then the current value of `C<host()>` or `C<port()>` is used. Optional named parameters are provided to override the current setting of `errmode` and `timeout`.

On success C<1> is returned. On time-out or other connection failures, the error mode action is performed. See C<errmode()>.

Time-outs don't work for this method on machines that don't implement SIGALRM - most notably MS-Windows machines. For those machines, an error is returned when the system reaches its own time-out while trying to connect.

A side effect of this method is to reset the alarm interval associated with SIGALRM.

=back

=over 4

=item B<option\_accept> - indicate willingness to accept a TELNET option

```
$fh = $obj->option_accept([Do => $telopt,]
                        [Dont => $telopt,]
                        [Will => $telopt,]
                        [Wont => $telopt,]);
```

This method is used to indicate whether to accept or reject an offer to enable a TELNET option made by the remote side. If you're using I<Do> or I<Will> to indicate a willingness to enable, then a notification callback must have already been defined by a prior call to C<option\_callback()>. See C<option\_callback()> for details on receiving enable/disable notification of a TELNET option.

You can give multiple I<Do>, I<Dont>, I<Will>, or I<Wont> arguments for different TELNET options in the same call to this method.

The following example describes the meaning of the named parameters. A TELNET option, such as C<TELOPT\_ECHO> used below, is an integer constant that you can import from Net::Telnet. See the source in file Telnet.pm for the complete list.

=over 4

=item

```
I<Do> => C<TELOPT_ECHO>
```

=over 4

=item

we'll accept an offer to enable the echo option on the local side

=back

=item

I<Dont> => C<TELOPT\_ECHO>

=over 4

=item

we'll reject an offer to enable the echo option on the local side

=back

=item

I<Will> => C<TELOPT\_ECHO>

=over 4

=item

we'll accept an offer to enable the echo option on the remote side

=back

=item

I<Wont> => C<TELOPT\_ECHO>

=over 4

=item

we'll reject an offer to enable the echo option on the remote side

=back

=back

=item

Use C<option\_send()> to send a request to the remote side to enable or disable a particular TELNET option.

=back



=over 4

=item B<option\_callback> - define the option negotiation callback

```
$coderef = $obj->option_callback;
```

```
$prev = $obj->option_callback($coderef);
```

This method defines the callback subroutine that's called when a TELNET option is enabled or disabled. Once defined, the I<option\_callback> may not be undefined. However, calling this method with a different I<\$coderef> changes it.

A warning is printed to STDERR when attempting to set this attribute to something that isn't a coderef.

Here are the circumstances that invoke I<\$coderef>:

=over 4

=item

An option becomes enabled because the remote side requested an enable and C<option\_accept()> had been used to arrange that it be accepted.

=item

The remote side arbitrarily decides to disable an option that is currently enabled. Note that Net::Telnet always accepts a request to disable from the remote side.

=item

C<option\_send()> was used to send a request to enable or disable an option and the response from the remote side has just been received. Note, that if a request to enable is rejected then I<\$coderef> is still invoked even though the option didn't change.

=back

=item

Here are the arguments passed to I<&\$coderef>:

```
&$coderef($obj, $option, $is_remote,  
          $is_enabled, $was_enabled, $buf_position);
```

=over 4

=item

1. I<\$obj> is the Net::Telnet object

=item

2. I<\$option> is the TELNET option. Net::Telnet exports constants for the various TELNET options which just equate to an integer.

=item

3. I<\$is\_remote> is a boolean indicating for which side the option applies.

=item

4. I<\$is\_enabled> is a boolean indicating the option is enabled or disabled

=item

5. I<\$was\_enabled> is a boolean indicating the option was previously enabled or disabled

=item

6. I<\$buf\_position> is an integer indicating the position in the object's input buffer where the option takes effect. See C<buffer()> to access the object's input buffer.

=back

=back

=over 4

=item B<option\_log> - log all TELNET options sent or received

```
$fh = $obj->option_log;
```

```
$fh = $obj->option_log($fh);
```

```
$fh = $obj->option_log($filename);
```

This method starts or stops logging of all TELNET options being sent or received. This is useful for debugging when you send options via C<option\_send()> or you arrange to accept option requests from the remote side via C<option\_accept()>. Also see C<dump\_log()>.

If no argument is given, the log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened for logging and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

=back

=over 4

=item B<option\_send> - send TELNET option negotiation request

```
$ok = $obj->option_send([Do => $telopt,]
                      [Dont => $telopt,]
                      [Will => $telopt,]
                      [Wont => $telopt,]
                      [Async => $boolean,]);
```

This method is not yet implemented. Look for it in a future version.

=back

=over 4

=item B<option\_state> - get current state of a TELNET option

```
$hashref = $obj->option_state($telopt);
```

This method returns a hashref containing a copy of the current state of TELNET option I<\$telopt>.

Here are the values returned in the hash:

=over 4

=item

I<\$hashref>->{remote\_enabled}

=over 4

=item

boolean that indicates if the option is enabled on the remote side.

=back

=item

I<\$hashref>->{remote\_enable\_ok}

=over 4

=item

boolean that indicates if it's ok to accept an offer to enable this option on the remote side.

=back

=item

I<\$hashref>->{remote\_state}

=over 4

=item

string used to hold the internal state of option negotiation for this option on the remote side.

=back

=item

I<\$hashref>->{local\_enabled}

=over 4

=item

boolean that indicates if the option is enabled on the local side.

=back

=item

I<\$hashref>->{local\_enable\_ok}

=over 4

=item

boolean that indicates if it's ok to accept an offer to enable this option on the local side.

=back

=item

I<\$hashref>->{local\_state}

=over 4

=item

string used to hold the internal state of option negotiation for this option on the local side.

=back

=back

=back

=over 4

=item B<ors> - output line delimiter

```
$chars = $obj->ors;
```

```
$prev = $obj->ors($chars);
```

This method is synonymous with C<output\_record\_separator()>.

=back

=over 4

=item B<output\_field\_separator> - field separator for print

```
$chars = $obj->output_field_separator;
```

```
$prev = $obj->output_field_separator($chars);
```

This method designates the output field separator for C<print()>. Ordinarily the print method simply prints out the comma separated fields you specify. Set this to specify what's printed between fields.

With no argument this method returns the current output field separator set in the object. With an argument it sets the output field separator to I<\$chars> and returns the previous value.

By default it's set to an empty string.

=back

=over 4

=item B<output\_log> - log all output

```
$fh = $obj->output_log;
```

```
$fh = $obj->output_log($fh);
```

```
$fh = $obj->output_log($filename);
```

This method starts or stops logging of output. This is useful when debugging. Also see C<dump\_log()>. Because most command interpreters echo back commands received, it's likely all your output would also be in an input log. See C<input\_log()>. Note that output logging occurs before newline translation. See C<binmode()> for details on newline translation.

If no argument is given, the log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened for logging and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

=back

=over 4

=item B<output\_record\_separator> - output line delimiter

```
$chars = $obj->output_record_separator;
```

```
$prev = $obj->output_record_separator($chars);
```

This method designates the output line delimiter for C<print()> and C<cmd()>. Set this to specify what's printed at the end of C<print()> and C<cmd()>.

The output record separator is set to C<"\n"> by default, so there's no need to append all your commands with a newline. To avoid printing the output\_record\_separator use C<put()> or set the output\_record\_separator to an empty string.

With no argument this method returns the current output record separator set in the object. With an argument it sets the output record separator to I<\$chars> and returns the previous value.

=back

=over 4

=item B<port> - remote port

```
$port = $obj->port;
```

```
$prev = $obj->port($port);
```

This method designates the remote TCP port. With no argument this method returns the current port number. With an argument it sets the current port number to I<\$port> and returns the previous port. If I<\$port> is a TCP service name, then it's first converted to a port number using the perl function C<getservbyname()>.

The default value is C<23>. It may also be set by C<open()> or C<new()>.

A warning is printed to STDERR when attempting to set this attribute to something that's not a positive integer or a valid TCP service name.

=back

=over 4

=item B<print> - write to object

```
$ok = $obj->print(@list);
```

This method writes I<@list> followed by the I<output\_record\_separator> to the open object and returns C<1> if all data was successfully written. On time-out or other failures, the error mode action is performed. See C<errmode()>.

By default, the C<output\_record\_separator()> is set to C<"\n"> so all your commands automatically end with a newline. In most cases your output is being read by a command interpreter which won't accept a command until newline is read. This is similar to someone typing a command and hitting the return key. To avoid printing a trailing C<"\n"> use C<put()> instead or set the output\_record\_separator to an empty string.

On failure, it's possible that some data was written. If you choose to try and recover from a print timing-out, use C<print\_length()> to determine how much was written before the error occurred.

You may also use the output field separator to print a string between the list elements. See C<output\_field\_separator()>.

=back

=over 4

=item B<print\_length> - number of bytes written by print

```
$num = $obj->print_length;
```

This returns the number of bytes successfully written by the most recent C<print()> or C<put()>.

=back

=over 4

=item B<prompt> - pattern to match a prompt

```
$matchop = $obj->prompt;
```

```
$prev = $obj->prompt($matchop);
```



This method sets the pattern used to find a prompt in the input stream. It must be a string representing a valid perl pattern match operator. The methods `C<login()>` and `C<cmd()>` try to read until matching the prompt. They will fail with a time-out error if the pattern you've chosen doesn't match what the remote side sends.

With no argument this method returns the prompt set in the object. With an argument it sets the prompt to `I<$matchop>` and returns the previous value.

The default prompt is `C<'/[\\$%#E<gt>] $/'>`

Always use single quotes, instead of double quotes, to construct `I<$matchop>` (e.g. `C<'/bash\\$ $/'>`). If you're constructing a DOS like file path, you'll need to use four backslashes to represent one (e.g. `C<'/c:\\\\users\\\\bille<gt>$/'>`).

Of course don't forget about regexp metacharacters like `C<.>`, `C<[>`, or `C<$>`. You'll only need a single backslash to quote them. The anchor metacharacters `C<^>` and `C<$>` refer to positions in the input buffer.

A warning is printed to `STDERR` when attempting to set this attribute with a match operator missing its opening delimiter.

```
=back
```

```
=over 4
```

```
=item B<put> - write to object
```

```
$ok = $obj->put($string);
```

```
$ok = $obj->put(String    => $string,  
                [Binmode => $mode,]  
                [Errmode  => $errmode,]  
                [Telnetmode => $mode,]  
                [Timeout  => $secs,]);
```

This method writes `I<$string>` to the opened object and returns `C<1>` if all data was successfully written. This method is like `C<print()>` except that it doesn't write the trailing `output_record_separator` ("`\n`" by default). On time-out or other failures, the error mode action is performed. See `C<errmode()>`.

On failure, it's possible that some data was written. If you choose to try and recover from a put timing-out, use `C<print_length()>` to

determine how much was written before the error occurred.

Optional named parameters are provided to override the current settings of binmode, errmode, telnetmode, and timeout.

=back

=over 4

=item B<rs> - input line delimiter

```
$chars = $obj->rs;
```

```
$prev = $obj->rs($chars);
```

This method is synonymous with C

=back

=over 4

=item B<telnetmode> - turn off/on telnet command interpretation

```
$mode = $obj->telnetmode;
```

```
$prev = $obj->telnetmode($mode);
```

This method controls whether or not TELNET commands in the data stream are recognized and handled. The TELNET protocol uses certain character sequences sent in the data stream to control the session.

If the port you're connecting to isn't using the TELNET protocol, then you should turn this mode off. The default is I<on>.

If no argument is given, the current mode is returned.

If I<\$mode> is C<0> then telnet mode is off. If I<\$mode> is C<1> then telnet mode is on.

=back

=over 4

=item B<timed\_out> - time-out indicator

```
$boolean = $obj->timed_out;
```

```
$prev = $obj->timed_out($boolean);
```

This method indicates if a previous read, write, or open method timed-out. Remember that timing-out is itself an error. To be able to invoke `C<timed_out()>` after a time-out error, you'd have to change the default error mode to something other than `C<"die">`. See `C<errmode()>`.

With no argument this method returns `C<1>` if the previous method timed-out. With an argument it sets the indicator. Normally, only internal methods set this indicator.

```
=back
```

```
=over 4
```

```
=item B<timeout> - I/O time-out interval
```

```
$secs = $obj->timeout;
```

```
$prev = $obj->timeout($secs);
```

This method sets the timeout interval that's used when performing I/O or connecting to a port. When a method doesn't complete within the timeout interval then it's an error and the error mode action is performed.

A timeout may be expressed as a relative or absolute value. If `I<$secs>` is greater than or equal to the time the program started, as determined by `$^T`, then it's an absolute time value for when time-out occurs. The perl function `C<time()>` may be used to obtain an absolute time value. For a relative time-out value less than `$^T`, time-out happens `I<$secs>` from when the method begins.

If `I<$secs>` is `C<0>` then time-out occurs if the data cannot be immediately read or written. Use the undefined value to turn off timing-out completely.

With no argument this method returns the timeout set in the object. With an argument it sets the timeout to `I<$secs>` and returns the previous value. The default timeout value is `C<10>` seconds.

A warning is printed to `STDERR` when attempting to set this attribute to something that's not an `C<undef>` or a non-negative integer.

```
=back
```

=over 4

=item B<waitfor> - wait for pattern in the input

```
$ok = $obj->waitfor($matchop);
$ok = $obj->waitfor([Match    => $matchop,]
                   [String   => $string,]
                   [Binmode  => $mode,]
                   [Errmode  => $errmode,]
                   [Telnetmode => $mode,]
                   [Timeout  => $secs,]);

($prematch, $match) = $obj->waitfor($matchop);
($prematch, $match) = $obj->waitfor([Match    => $matchop,]
                                   [String   => $string,]
                                   [Binmode  => $mode,]
                                   [Errmode  => $errmode,]
                                   [Telnetmode => $mode,]
                                   [Timeout  => $secs,]);
```

This method reads until a pattern match or string is found in the input stream. All the characters before and including the match are removed from the input stream.

In a list context the characters before the match and the matched characters are returned in I<\$prematch> and I<\$match>. In a scalar context, the matched characters and all characters before it are discarded and C<1> is returned on success. On time-out, eof, or other failures, for both list and scalar context, the error mode action is performed. See C<errmode()>.

You can specify more than one pattern or string by simply providing multiple I<Match> and/or I<String> named parameters. A I<\$matchop> must be a string representing a valid Perl pattern match operator. The I<\$string> is just a substring to find in the input stream.

Use C<dump\_log()> to debug when this method keeps timing-out and you don't think it should.

An optional named parameter is provided to override the current setting of timeout.

To avoid unexpected backslash interpretation, always use single quotes instead of double quotes to construct a match operator argument for C<prompt()> and C<waitfor()> (e.g. C<'/bash\\$\ \$/'>). If you're constructing a DOS like file path, you'll need to use four backslashes

to represent one (e.g. C<'c:\\\\users\\billE<gt>\$/i'>).

Of course don't forget about regexp metacharacters like C<.>, C<[>, or C<\$>. You'll only need a single backslash to quote them. The anchor metacharacters C<^> and C<\$> refer to positions in the input buffer.

Optional named parameters are provided to override the current settings of binmode, errmode, telnetmode, and timeout.

=back

=head1 SEE ALSO

=over 2

=item RFC 854

S<TELNET Protocol Specification>

S<ftp://ftp.isi.edu/in-notes/rfc854.txt>

=item RFC 1143

S<Q Method of Implementing TELNET Option Negotiation>

S<ftp://ftp.isi.edu/in-notes/rfc1143.txt>

=item TELNET Option Assignments

S<http://www.iana.org/assignments/telnet-options>

=back

=head1 EXAMPLES

This example gets the current weather forecast for Brainerd, Minnesota.

```
my ($forecast, $t);

use Net::Telnet ();
$t = new Net::Telnet;
$t->open("rainmaker.wunderground.com");

## Wait for first prompt and "hit return".
$t->waitfor('/continue:.*$/');
$t->print("");
```

```

## Wait for second prompt and respond with city code.
$t->waitfor('/city code.*$/');
$t->print("BRD");

## Read and print the first page of forecast.
($forecast) = $t->waitfor('/[\t]+press return to continue/i');
print $forecast;

exit;

```

This example checks a POP server to see if you have mail.

```

my ($hostname, $line, $passwd, $pop, $username);

$hostname = "your_destination_host_here";
$username = "your_username_here";
$passwd = "your_password_here";

use Net::Telnet ();
$pop = new Net::Telnet (Telnetmode => 0);
$pop->open(Host => $hostname,
           Port => 110);

## Read connection message.
$line = $pop->getline;
die $line unless $line =~ /^.+OK/;

## Send user name.
$pop->print("user $username");
$line = $pop->getline;
die $line unless $line =~ /^.+OK/;

## Send password.
$pop->print("pass $passwd");
$line = $pop->getline;
die $line unless $line =~ /^.+OK/;

## Request status of messages.
$pop->print("list");
$line = $pop->getline;
print $line;

exit;

```

Here's an example that uses the ssh program to connect to a remote host. Because the ssh program reads and writes to its controlling terminal, the IO::Pty module is used to create a new pseudo terminal for use by ssh. A new Net::Telnet object is then created to read and write to that pseudo terminal. To use the code below, substitute "changeme" with the actual host, user, password, and command prompt.

```
## Main program.
{
  my ($pty, $ssh, @lines);
  my $host = "changeme";
  my $user = "changeme";
  my $password = "changeme";
  my $prompt = '/changeme:~> $/';

  ## Start ssh program.
  $pty = &spawn("ssh", "-l", $user, $host); # spawn() defined below

  ## Create a Net::Telnet object to perform I/O on ssh's tty.
  use Net::Telnet;
  $ssh = new Net::Telnet (-fhopen => $pty,
                        -prompt => $prompt,
                        -telnetmode => 0,
                        -cmd_remove_mode => 1,
                        -output_record_separator => "\r");

  ## Login to remote host.
  $ssh->waitfor(-match => '/password: ?$/i',
              -errmode => "return")
    or die "problem connecting to host: ", $ssh->lastline;
  $ssh->print($password);
  $ssh->waitfor(-match => $ssh->prompt,
              -errmode => "return")
    or die "login failed: ", $ssh->lastline;

  ## Send command, get and print its output.
  @lines = $ssh->cmd("who");
  print @lines;

  exit;
} # end main program

sub spawn {
  my(@cmd) = @_ ;
  my($pid, $pty, $tty, $tty_fd);

  ## Create a new pseudo terminal.
  use IO::Pty ();
```

```

$pty = new IO::Pty
    or die $!;

## Execute the program in another process.
unless ($pid = fork) { # child process
    die "problem spawning program: $!\n" unless defined $pid;

    ## Disassociate process from existing controlling terminal.
    use POSIX ();
    POSIX::setsid
        or die "setsid failed: $!";

    ## Associate process with a new controlling terminal.
    $tty = $pty->slave;
    $tty_fd = $tty->fileno;
    close $pty;

    ## Make stdio use the new controlling terminal.
    open STDIN, "<&$tty_fd" or die $!;
    open STDOUT, ">&$tty_fd" or die $!;
    open STDERR, ">&STDOUT" or die $!;
    close $tty;

    ## Execute requested program.
    exec @cmd
        or die "problem executing $cmd[0]\n";
    } # end child process

    $pty;
} # end sub spawn

```

Here's an example that changes a user's login password. Because the `passwd` program always prompts for passwords on its controlling terminal, the `IO::Pty` module is used to create a new pseudo terminal for use by `passwd`. A new `Net::Telnet` object is then created to read and write to that pseudo terminal. To use the code below, substitute "changeme" with the actual old and new passwords.

```

my ($pty, $passwd);
my $oldpw = "changeme";
my $newpw = "changeme";

## Start passwd program.
$pty = &spawn("passwd"); # spawn() defined above

## Create a Net::Telnet object to perform I/O on passwd's tty.
use Net::Telnet;

```



```

$passwd = new Net::Telnet (-fhopen => $pty,
                        -timeout => 2,
                        -output_record_separator => "\r",
                        -telnetmode => 0,
                        -cmd_remove_mode => 1);
$passwd->errmode("return");

## Send existing password.
$passwd->waitfor('/password: ?$/i')
    or die "no old password prompt: ", $passwd->lastline;
$passwd->print($oldpw);

## Send new password.
$passwd->waitfor('/new password: ?$/i')
    or die "bad old password: ", $passwd->lastline;
$passwd->print($newpw);

## Send new password verification.
$passwd->waitfor('/new password: ?$/i')
    or die "bad new password: ", $passwd->lastline;
$passwd->print($newpw);

## Display success or failure.
$passwd->waitfor('/changed/')
    or die "bad new password: ", $passwd->lastline;
print $passwd->lastline;

$passwd->close;
exit;

```

Here's an example you can use to download a file of any type. The file is read from the remote host's standard output using `cat`. To prevent any output processing, the remote host's standard output is put in raw mode using the Bourne shell. The Bourne shell is used because some shells, notably `tsh`, prevent changing tty modes. Upon completion, FTP style statistics are printed to `stderr`.

```

my ($block, $filename, $host, $hostname, $k_per_sec, $line,
    $num_read, $passwd, $prevblock, $prompt, $size, $size_bsd,
    $size_sysv, $start_time, $total_time, $username);

$hostname = "your_destination_host_here";
$username = "your_username_here";
$passwd = "your_password_here";
$filename = "your_download_file_here";

```

```

## Connect and login.

```

```

use Net::Telnet ();
$host = new Net::Telnet (Timeout => 30,
    Prompt => '/[%#>] $/');
$host->open($hostname);
$host->login($username, $passwd);

## Make sure prompt won't match anything in send data.
$prompt = "_funkyPrompt_";
$host->prompt("/$prompt$/");
$host->cmd("set prompt = '$prompt'");

## Get size of file.
($line) = $host->cmd("/bin/ls -l $filename");
($size_bsd, $size_sysv) = (split ' ', $line)[3,4];
if ($size_sysv =~ /\^d+$/) {
    $size = $size_sysv;
}
elseif ($size_bsd =~ /\^d+$/) {
    $size = $size_bsd;
}
else {
    die "$filename: no such file on $hostname";
}

## Start sending the file.
binmode STDOUT;
$host->binmode(1);
$host->print("/bin/sh -c 'stty raw; cat $filename'");
$host->getline; # discard echoed back line

## Read file a block at a time.
$num_read = 0;
$prevblock = "";
$start_time = time;
while (($block = $host->get) and ($block !~ /$prompt$/o)) {
    if (length $block >= length $prompt) {
        print $prevblock;
        $num_read += length $prevblock;
        $prevblock = $block;
    }
    else {
        $prevblock .= $block;
    }
}
$host->close;

## Print last block without trailing prompt.

```

```
$prevblock .= $block;
$prevblock =~ s/$prompt$//;
print $prevblock;
$num_read += length $prevblock;
die "error: expected size $size, received size $num_read\n"
    unless $num_read == $size;
```

```
## Print totals.
$total_time = (time - $start_time) || 1;
$k_per_sec = ($size / 1024) / $total_time;
$k_per_sec = sprintf "%3.1f", $k_per_sec;
warn("$num_read bytes received in $total_time seconds ",
    "($k_per_sec Kbytes/s)\n");
```

```
exit;
```

```
=head1 AUTHOR
```

Jay Rogers <jay@rgrs.com>

```
=head1 COPYRIGHT
```

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from README

Net::Telnet, version 3.03

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<snip>

Documentation

-----

User documentation in POD format is contained within the module  
source (i.e. the .pm file). Installing using "make install"  
places this documentation in a man page in the perl library under

the directory "man/man3".

To nicely format the documentation for printing, you may use "groff" to convert to postscript. Groff is available under the GNU General Public License (GPL) and is installed on most Linux machines.

```
pod2man Net/Telnet.pm | groff -man -Tps > Net::Telnet.ps
```

<snip>

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from NetAddr-IP-4.027/Lite/Util/xs\_include/miniSocket.inc

```
# This file is excerpted from perl-5.8.0/ext/Socket/Socket.xs and
# modified slightly so that it compiles on older versions of perl/gcc
#
# 3/28/06 version 1.78 of Socket.xs, included in perl 5.9.3
# is 100% compatible with this version
#
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#
```

```
#ifndef Newx
#define Newx(v,n,t) New(1138,v,n,t)
#endif
```

```
#####
#           Perl Kit, Version 5
#
```

```
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#
```

from NetAddr-IP-4.027/NetAddr-IP-4.027/Lite/Util/xs\_include/inet\_aton.c

```
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*
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*/
```

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## 2.235 netextreme2 6.2.23

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## 2.238 nfs-utils 1.2.9

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```
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```
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```

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## 2.239 Nmap-Parser 1.19



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from /tools/nmap2db.pl

```
#!/usr/bin/perl
# THIS IS A MODIFIED VERSION OF NMAP2SQLITE SCRIPT ORIGINALLY DEVELOPED BY ANTHONY
# G PERSAUD
# BUT MODIFIED TO WORK WITH MYSQL DATABASES BY ROBIN BOWES.
# nmap2db.pl
# Description:
# It takes in a nmap xml file and stores it into a SQLite database using DBI for
# searching, storing and better reporting. This is just an example of how an
# IP network database can be created using Nmap-Parser and automation.
#
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=cut

from /tools/nmap2sqlite.p

#!/usr/bin/perl

#Anthony G. Persaud

#nmap2sqlite.pl

#Description:

# It takes in a nmap xml file and stores it into a SQLite database using DBI for

# searching, storing and better reporting. This is just an example of how an

# IP network database can be created using Nmap-Parser and automation.

#

#

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from pdev.pl

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The End

## 2.241 ntp 4.2.4p8

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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
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  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
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  50. [54]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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- >
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>  
> so I thought I'd ask your permission to distribute your files if I can  
> figure out how to make it all work with ntpd.

<http://coombs.anu.edu.au/~avalon/arlib.tar.gz>

a few bug fixes (inc. buffer overflow :) and stuff in there.

But otherwise, go for it.

Darren

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### 2.242.1 Available under license :

from README

<snip>

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from diff.numastat

<snip>

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type 'show w'. This is free software, and you are welcome
to redistribute it under certain conditions; type 'show c'
for details.
```

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```
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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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.I libnuma

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<snip>

## 2.243 Number-Compare 0.03

### 2.243.1 Available under license :

from /lib/Number/Compare.pm

<snip>

=head1 AUTHOR

Richard Clamp <richardc@unixbeard.net>

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=head1 SEE ALSO

<http://physics.nist.gov/cuu/Units/binary.html>

=cut

from META.yml

--- #YAML:1.0

name: Number-Compare

version: 0.03

abstract: ~

author: []

license: unknown

distribution\_type: module

configure\_requires:

ExtUtils::MakeMaker: 0  
build\_requires:  
ExtUtils::MakeMaker: 0  
requires:  
Test::More: 0  
no\_index:  
directory:  
- t  
- inc  
generated\_by: ExtUtils::MakeMaker version 6.57\_05  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
```

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!

## 2.244 Object-MultiType 0.05

### 2.244.1 Available under license :

from MultiType.pm

<snip>

=head1 AUTHOR

Graciliano M. P. <gm@virtuasites.com.br>

I will appreciate any type of feedback (include your opinions and/or suggestions). ;-P

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=cut

from README

```
#####  
# Object::MultiType #  
#####
```

Perl Objects as Hash, Array and Scalar at the same time.

```
#####  
# DESCRIPTION #  
#####
```

This module return an object that works like a Hash, Array and Scalar object at the same time.

\*\* See POD for documentation.

```
#####  
# INSTALLATION #
```

#####

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

```
#####
# AUTHOR #
#####
```

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```
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#####
```

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```

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## 2.245 openldap 2.4.31

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\*

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\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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/\*

\* pam\_tally.c

\*

\*/

/\* By Tim Baverstock <warwick@mmm.co.uk>, Multi Media Machine Ltd.

\* 5 March 1997

\*

\* Stuff stolen from pam\_rootok and pam\_listfile

\*

\* Changes by Tomas Mraz <tmraz@redhat.com> 5 January 2005, 26 January 2006

\* Audit option added for Tomas patch by Sebastien Tricaud <toady@gscore.org> 13 January 2005

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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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## 2.251 pam\_radius 1.3.17

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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

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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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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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That's all there is to it!

Pango is a library for layout and rendering of text, with an emphasis on internationalization. Pango can be used anywhere that text layout is needed; however, most of the work on Pango so far has been done using the GTK+ widget toolkit as a test platform. Pango forms the core of text and font handling for GTK+-2.x.

Pango is designed to be modular; the core Pango layout can be used with different font backends. There are three basic backends, with multiple options for rendering with each.

- Client side fonts using the FreeType and fontconfig libraries. Rendering can be with with Cairo or Xft libraries, or directly to an in-memory buffer with no additional libraries.
- Native fonts on Microsoft Windows using Uniscribe if available for complex script handling. Rendering can be done via Cairo or directly using the native Win32 API.
- Native fonts on MacOS X, rendering via Cairo.

The integration of Pango with Cairo (<http://cairographics.org>) provides a complete solution with high quality text handling and graphics rendering.

Dynamically loaded modules then handle text layout for particular combinations of script and font backend.

As well as the low level layout rendering routines, Pango includes PangoLayout, a high level driver for laying out entire blocks of text, and routines to assist in editing internationalized text.

For more information about Pango, see:

<http://www.pango.org/>

## Dependencies

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Pango depends on the GLib library; more information about GLib can be found at <http://www.gtk.org/>.

When using client side fonts, the fontconfig library (<http://www.fontconfig.org>) to look up fonts. At least version 2.0.9 of the FreeType font handling library (<http://www.freetype.org>) is also required.

Cairo support depends on the Cairo library (<http://cairographics.org>). The Cairo backend is the preferred backend to use Pango with and is subject of most of the development in the future. It has the advantage that the same code can be used for display and printing.

We suggest using Pango with Cairo as described above, but you can also do X-specific rendering using the Xft library. The Xft backend uses version 2 of the Xft library to manage client side fonts. Version 2 of Xft is available from <http://xlibs.freedesktop.org/release/>. You'll need the libXft package, and possibly the libXrender and renderext packages as well. You'll also need fontconfig (see below.)

Installation of Pango on Win32 is possible, but is not documented here. See <http://www.gimp.org/~tml/gimp/win32/downloads.html>

## Notes

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- By default, Pango tries to build itself so that no explicit dependency on Xft or FreeType will be introduced in apps that link to Pango. This is to avoid compatibility problems with changes in the Xft or FreeType API's or ABI's. Specifying `--enable-explicit-deps` or `--enable-static` when configuring Pango will defeat this and should be avoided if possible.

## License

=====

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Note that binary distributions of Pango must include a disclaimer that the software is based in part of the work of the FreeType Team, in the distribution documentation; for instance, by including this README file.

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behdad@gnome.org

26 February 2007

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the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
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```

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## 2.255 Parse-RecDescent 1.962.2

### 2.255.1 Available under license :

From README

<snip>

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Version 1, February 1989

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```

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

That's all there is to it!

## 2.256 parted 3.1

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## 2.257 Passwd-Linux 1.2

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The End

From: Eric Estabrooks <eric@urbanrage.com>

To: Mez <mez@alum.mit.edu>

Sent: Tuesday, February 24, 2015 1:08 PM

Subject: Re: Passwd-Linux licensing

On 02/24/2015 09:55 AM, Mez wrote:

> Hi Eric,

>

> I'm contacting you as author of Passwd-Linux to clarify the licensing on

> Passwd-Linux. Can you verify that it is under the perl Artistic License

> used in CPAN? Thanks!

Yes it is. I guess this means I forgot to include a license file in the tarball.

Eric

## 2.258 patch 2.5.4

### 2.258.1 Available under license :

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Version 2, June 1991

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```
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```

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## 2.259 pciutils 3.0.1

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```
<snip>
#
# List of PCI ID's
#
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# Linux PCI ID's Project at http://pciids.sf.net/.
#
# New data are always welcome, especially if accurate. If you have
# anything to contribute, please follow the instructions at the web site
# or send a diff -u against the most recent pci.ids to pci-ids@ucw.cz.
#
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#
# Daily snapshot on Thu 2008-09-11 01:05:01
#
```

## 2.260 pcre 7.6

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-----

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## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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```

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Ty Coon, President of Vice
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-----

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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## 2.262 perl-ldap 0.39

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from README...

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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The End

## 2.263 PerlMagick 6.58

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from MAKEFILE.am

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#
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#
# Makefile for building PerlMagick.
```

<snip>

```
package Image::Magick;
```

```
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# Public Domain
```

<snip>

```
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```

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## 2.265 pkgtools 9.0

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```
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#
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#

# *****
# Refer to the XF86Config(4/5) man page for details about the format of
# this file.
# *****

# This XF86Config file is designed for use with the Linux framebuffer console.
# This generic interface should work with nearly all video cards (although
# not every card will support every resolution). To use the Linux framebuffer
# console, you need to enable these kernel options:
# Using 'make menuconfig', in 'console drivers', enable:
# [*] VGA text console
# [*] Video mode selection support
# [*] Support for frame buffer devices (EXPERIMENTAL)
# [*] VESA VGA graphics console
# [*] Advanced low level driver options
# <*> 8 bpp packed pixels support
# <*> 16 bpp packed pixels support
```

```

# <*> 24 bpp packed pixels support
# <*> 32 bpp packed pixels support
# <*> VGA characters/attributes support
# [*] Select compiled-in fonts
# [*] VGA 8x8 font
# [*] VGA 8x16 font
# If you have a Matrox or ATI Mach64, you might try enabling the options having
# to do with those cards as well. However, if the card is VESA compliant, you
# don't really need to (and it might cause problems, possibly)
#
# Next, if this file is not already named /etc/X11/XF86Config, make a copy
# with that name. This file ships with the name XF86Config-fbdev to avoid
# overwriting an existing config file.
#
# To get the kernel to start in VESA framebuffer mode, you need to pass it
# a vga= init string at boot time. For example, if you use LILO you'll
# probably find a vga=normal string in your /etc/lilo.conf. If you edit that
# to one of the values in this table:
#
# Colours 640x480 800x600 1024x768 1280x1024 1600x1200
# -----+-----
# 256 | 769 771 773 775 796
# 32,768 | 784 787 790 793 797
# 65,536 | 785 788 791 794 798
# 16.8M | 786 789 792 795 799
#
# ...such as this for 1024x768x64k:
# vga = 791
# and then reinstall LILO by running 'lilo' as root, then at the next boot
# Linux should start in a VESA framebuffer console mode.
#
# For more information on how to activate the Linux frame buffer, see
# /usr/src/linux/Documentation/fb/vesafb.txt.
#
# Enjoy! :)
# -- volkerdi@slackware.com
#
# *****
# Module section -- this section is used to specify
# which dynamically loadable modules to load.
# *****
#
Section "Module"

# This loads the DBE extension module.

Load      "dbe" # Double buffer extension

```



```
# This loads the miscellaneous extensions module, and disables
# initialisation of the XFree86-DGA extension within that module.
SubSection "extmod"
    Option "omit xfree86-dga" # don't initialise the DGA extension
EndSubSection
```

```
# This loads the font modules
Load "type1"
Load "freetype"
Load "speedo"
```

```
# This loads the GLX module
Load "glx"
```

```
EndSection
```

```
# *****
# Files section. This allows default font and rgb paths to be set
# *****
```

```
Section "Files"
```

```
# The location of the RGB database. Note, this is the name of the
# file minus the extension (like ".txt" or ".db"). There is normally
# no need to change the default.
```

```
RgbPath "/usr/X11R6/lib/X11/rgb"
```

```
# Multiple FontPath entries are allowed (which are concatenated together),
# as well as specifying multiple comma-separated entries in one FontPath
# command (or a combination of both methods)
#
# If you don't have a floating point coprocessor and emacs, Mosaic or other
# programs take long to start up, try moving the Type1 and Speedo directory
# to the end of this list (or comment them out).
#
```

```
FontPath "/usr/X11R6/lib/X11/fonts/local/"
FontPath "/usr/X11R6/lib/X11/fonts/misc/"
FontPath "/usr/X11R6/lib/X11/fonts/75dpi:unscaled"
FontPath "/usr/X11R6/lib/X11/fonts/100dpi:unscaled"
FontPath "/usr/X11R6/lib/X11/fonts/Type1/"
FontPath "/usr/X11R6/lib/X11/fonts/CID/"
FontPath "/usr/X11R6/lib/X11/fonts/Speedo/"
FontPath "/usr/X11R6/lib/X11/fonts/75dpi/"
FontPath "/usr/X11R6/lib/X11/fonts/100dpi/"
FontPath "/usr/X11R6/lib/X11/fonts/cyrillic/"
```

# ModulePath can be used to set a search path for the X server modules.

# The default path is shown here.

# ModulePath "/usr/X11R6/lib/modules"

EndSection

# \*\*\*\*\*

# Server flags section.

# \*\*\*\*\*

Section "ServerFlags"

# Uncomment this to cause a core dump at the spot where a signal is

# received. This may leave the console in an unusable state, but may

# provide a better stack trace in the core dump to aid in debugging

# Option "NoTrapSignals"

# Uncomment this to disable the <Ctrl><Alt><Fn> VT switch sequence

# (where n is 1 through 12). This allows clients to receive these key

# events.

# Option "DontVTSwitch"

# Uncomment this to disable the <Ctrl><Alt><BS> server abort sequence

# This allows clients to receive this key event.

# Option "DontZap"

# Uncomment this to disable the <Ctrl><Alt><KP\_+>/<KP\_-> mode switching

# sequences. This allows clients to receive these key events.

# Option "DontZoom"

# Uncomment this to disable tuning with the xvidtune client. With

# it the client can still run and fetch card and monitor attributes,

# but it will not be allowed to change them. If it tries it will

# receive a protocol error.

# Option "DisableVidModeExtension"

# Uncomment this to enable the use of a non-local xvidtune client.

# Option "AllowNonLocalXvidtune"

# Uncomment this to disable dynamically modifying the input device

```

# (mouse and keyboard) settings.

# Option "DisableModInDev"

# Uncomment this to enable the use of a non-local client to
# change the keyboard or mouse settings (currently only xset).

# Option "AllowNonLocalModInDev"

# Set the basic blanking screen saver timeout.

# Option "blank time" "10" # 10 minutes

# Set the DPMS timeouts. These are set here because they are global
# rather than screen-specific. These settings alone don't enable DPMS.
# It is enabled per-screen (or per-monitor), and even then only when
# the driver supports it.

# Option "standby time" "20"
# Option "suspend time" "30"
# Option "off time" "60"

# On some platform the server needs to estimate the sizes of PCI
# memory and pio ranges. This is done by assuming that PCI ranges
# don't overlap. Some broken BIOSes tend to set ranges of inactive
# devices wrong. Here one can adjust how aggressive the assumptions
# should be. Default is 0.

# Option "EstimateSizesAggresively" "0"

EndSection

# *****
# Input devices
# *****

# *****
# Core keyboard's InputDevice section
# *****

Section "InputDevice"

    Identifier "Keyboard1"
    Driver "Keyboard"
# For most OSs the protocol can be omitted (it defaults to "Standard").
# When using XQUEUE (only for SVR3 and SVR4, but not Solaris),
# uncomment the following line.

```

```
# Option "Protocol" "Xqueue"

# Set the keyboard auto repeat parameters. Not all platforms implement
# this.

# Option "AutoRepeat" "500 5"

# Specify which keyboard LEDs can be user-controlled (eg, with xset(1)).

# Option "Xleds" "1 2 3"

# To disable the XKEYBOARD extension, uncomment XkbDisable.

# Option "XkbDisable"

# To customise the XKB settings to suit your keyboard, modify the
# lines below (which are the defaults). For example, for a European
# keyboard, you will probably want to use one of:
#
# Option "XkbModel" "pc102"
# Option "XkbModel" "pc105"
#
# If you have a Microsoft Natural keyboard, you can use:
#
# Option "XkbModel" "microsoft"
#
# If you have a US "windows" keyboard you will want:
#
# Option "XkbModel" "pc104"
#
# Then to change the language, change the Layout setting.
# For example, a german layout can be obtained with:
#
# Option "XkbLayout" "de"
#
# or:
#
# Option "XkbLayout" "de"
# Option "XkbVariant" "nodeadkeys"
#
# If you'd like to switch the positions of your capslock and
# control keys, use:
#
# Option "XkbOptions" "ctrl:swapcaps"

# These are the default XKB settings for XFree86
#
```

```
# Option "XkbRules" "xfree86"
# Option "XkbModel" "pc101"
# Option "XkbLayout" "us"
# Option "XkbVariant" ""
# Option "XkbOptions" ""
```

EndSection

```
# *****
# Core Pointer's InputDevice section
# *****
```

Section "InputDevice"

# Identifier and driver

```
Identifier "Mouse1"
Driver "mouse"
```

# On platforms where PnP mouse detection is supported the following  
# protocol setting can be used when using a newer PnP mouse:

```
# Option "Protocol" "Auto"
```

# The available mouse protocols types that you can set below are:

```
# Auto BusMouse GlidePoint GlidePointPS/2 IntelliMouse IMPS/2
# Logitech Microsoft MMHitTab MMSeries Mouseman MouseManPlusPS/2
# MouseSystems NetMousePS/2 NetScrollPS/2 OSMouse PS/2 SysMouse
# ThinkingMouse ThinkingMousePS/2 Xqueue
Option "Protocol" "PS/2"
```

# The mouse device. The device is normally set to /dev/mouse,  
# which is usually a symbolic link to the real device.

```
Option "Device" "/dev/mouse"
# Option "Device" "/dev/psaux"
# Option "Device" "/dev/ttyS0"
# Option "Device" "/dev/ttyS1"
```

# When using XQUEUE, comment out the above two lines, and uncomment  
# the following line.

```
# Option "Protocol" "Xqueue"
```

# Baudrate and SampleRate are only for some Logitech mice. In  
# almost every case these lines should be omitted.

```
# Option "BaudRate" "9600"
# Option "SampleRate" "150"

# Emulate3Buttons is an option for 2-button Microsoft mice
# Emulate3Timeout is the timeout in milliseconds (default is 50ms)

# Option "Emulate3Buttons"
# Option "Emulate3Timeout" "50"

# ChordMiddle is an option for some 3-button Logitech mice

# Option "ChordMiddle"

EndSection
```

```
# Some examples of extended input devices
```

```
# Section "InputDevice"
# Identifier "spaceball"
# Driver "magellan"
# Option "Device" "/dev/cua0"
# EndSection
#
```

```
# Section "InputDevice"
# Identifier "spaceball2"
# Driver "spaceorb"
# Option "Device" "/dev/cua0"
# EndSection
#
```

```
# Section "InputDevice"
# Identifier "touchscreen0"
# Driver "microtouch"
# Option "Device" "/dev/ttyS0"
# Option "MinX" "1412"
# Option "MaxX" "15184"
# Option "MinY" "15372"
# Option "MaxY" "1230"
# Option "ScreenNumber" "0"
# Option "ReportingMode" "Scaled"
# Option "ButtonNumber" "1"
# Option "SendCoreEvents"
# EndSection
#
```

```
# Section "InputDevice"
# Identifier "touchscreen1"
# Driver "elo2300"
# Option "Device" "/dev/ttyS0"
# Option "MinX" "231"
```

```

# Option "MaxX"      "3868"
# Option "MinY"      "3858"
# Option "MaxY"      "272"
# Option "ScreenNumber" "0"
# Option "ReportingMode" "Scaled"
# Option "ButtonThreshold" "17"
# Option "ButtonNumber" "1"
# Option "SendCoreEvents"
# EndSection

# *****
# Monitor section
# *****

# Any number of monitor sections may be present

Section "Monitor"

    Identifier "My Monitor"

# HorizSync is in kHz unless units are specified.
# HorizSync may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY. REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

    HorizSync 31.5 - 50.0

# HorizSync 30-64      # multisync
# HorizSync 31.5, 35.2 # multiple fixed sync frequencies
# HorizSync 15-25, 30-50 # multiple ranges of sync frequencies

# VertRefresh is in Hz unless units are specified.
# VertRefresh may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY. REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

    VertRefresh 40-90

EndSection

# *****
# Graphics device section
# *****

# Any number of graphics device sections may be present

```

```

Section "Device"
    Identifier "VESA Framebuffer"
    Driver     "fbdev"
    #VideoRam  4096
    # Insert Clocks lines here if appropriate
EndSection

# *****
# Screen sections
# *****

# Any number of screen sections may be present. Each describes
# the configuration of a single screen. A single specific screen section
# may be specified from the X server command line with the "-screen"
# option.
Section "Screen"
    Identifier "Screen 1"
    Device     "VESA Framebuffer"
    Monitor    "My Monitor"

# You shouldn't need to set a default depth as the server will use
# whatever the framebuffer is set to. If you insist on setting it, make
# sure it matches the setting for your framebuffer.
# DefaultDepth 8

    Subsection "Display"
        Depth    8
    EndSubsection
    Subsection "Display"
        Depth    16
    EndSubsection
    Subsection "Display"
        Depth    24
    EndSubsection
    Subsection "Display"
        Depth    32
    EndSubsection

EndSection

# *****
# ServerLayout sections.
# *****

# Any number of ServerLayout sections may be present. Each describes
# the way multiple screens are organised. A specific ServerLayout
# section may be specified from the X server command line with the

```



```
# "-layout" option. In the absence of this, the first section is used.
# When now ServerLayout section is present, the first Screen section
# is used alone.
```

Section "ServerLayout"

```
# The Identifier line must be present
Identifier "Simple Layout"
```

```
# Each Screen line specifies a Screen section name, and optionally
# the relative position of other screens. The four names after
# primary screen name are the screens to the top, bottom, left and right
# of the primary screen. In this example, screen 2 is located to the
# right of screen 1.
```

Screen "Screen 1"

```
# Each InputDevice line specifies an InputDevice section name and
# optionally some options to specify the way the device is to be
# used. Those options include "CorePointer", "CoreKeyboard" and
# "SendCoreEvents".
```

```
InputDevice "Mouse1" "CorePointer"
InputDevice "Keyboard1" "CoreKeyboard"
```

EndSection

Taken from installpkg script

```
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```

```
#
```

```
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```

```
#
```

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```
#
```

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```

```

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# WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
# OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
# ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#

echo "WARNING: pkgtools are unstable with tar > 1.13."
echo "    You should provide a \"tar-1.13\" in your $PATH."
sleep 5
fi

make_install_script() {
COUNT=1
LINE="sed -n \"$COUNT p\" $1"
while [ ! "$LINE" = "" ]; do
LINKGOESIN="echo \"$LINE\" | cut -f 1 -d \" \""
LINKGOESIN="dirname $LINKGOESIN"
LINKNAMEIS="echo \"$LINE\" | cut -f 1 -d \" \""
LINKNAMEIS="basename \"$LINKNAMEIS\""
LINKPOINTSTO="echo \"$LINE\" | cut -f 3 -d \" \""
echo "( cd $LINKGOESIN ; rm -rf $LINKNAMEIS )"
echo "( cd $LINKGOESIN ; ln -sf $LINKPOINTSTO $LINKNAMEIS )"
COUNT='expr $COUNT + 1'
LINE="sed -n \"$COUNT p\" $1"
done

```

```
}
```

```
usage() {  
cat << EOF
```

Usage: makepkg package\_name.tgz

Makes a Slackware compatible "\*.tgz" package containing the contents of the current and all subdirectories. If symbolic links exist, they will be removed and an installation script will be made to recreate them later. This script will be called "install/doinst.sh". You may add any of your own ash-compatible shell scripts to this file and rebuild the package if you wish.

options: -l, --linkadd y|n (moves symlinks into doinst.sh: recommended)  
-c, --chown y|n (resets all permissions to root:root 755  
- not generally recommended)

If these options are not set, makepkg will prompt as appropriate.

```
EOF
```

```
}
```

```
TMP=/tmp # This can be a hole, but I'm going to be careful about file  
# creation in there, so don't panic. :^)
```

```
# Parse options
```

```
while [ 0 ]; do
```

```
if [ "$1" = "--linkadd" -o "$1" = "-l" ]; then
```

```
if [ "$2" = "y" ]; then
```

```
LINKADD=y
```

```
elif [ "$2" = "n" ]; then
```

```
LINKADD=n
```

```
else
```

```
usage
```

```
exit 2
```

```
fi
```

```
shift 2
```

```
elif [ "$1" = "--chown" -o "$1" = "-c" ]; then
```

```
if [ "$2" = "y" ]; then
```

```
CHOWN=y
```

```
elif [ "$2" = "n" ]; then
```

```
CHOWN=n
```

```
else
```

```
usage
```

```
exit 2
```

```
fi
```

```
shift 2
```

```
elif [ "$1" = "-h" -o "$1" = "-H" -o "$1" = "--help" -o $# = 0 ]; then
```

```
usage
```

```

    exit 0
else
    break
fi
done

echo
echo "Slackware package maker, version 2.0."
PACKAGE_NAME=$1
TARGET_NAME="dirname $PACKAGE_NAME"
PACKAGE_NAME="basename $PACKAGE_NAME"
TAR_NAME="basename $PACKAGE_NAME .tgz"
echo
echo "Searching for symbolic links:"
# Get rid of possible pre-existing trouble:
INST='mktmp $TMP/makepkg.XXXXXX'
find . -type l -exec ls -l {} \; | while read foo ; do echo $foo ; done | cut -f 9- -d ' ' | cut -b3- | tee $INST
if [ ! "cat $INST" = "" ]; then
    echo
    echo "Making symbolic link creation script:"
    make_install_script $INST | tee doinst.sh
fi
echo
if [ ! "cat $INST" = "" ]; then
if [ -r install/doinst.sh ]; then
    echo "Unless your existing installation script already contains the code"
    echo "to create these links, you should append these lines to your existing"
    echo "install script. Now's your chance. :^)"
    echo
    echo "Would you like to add this stuff to the existing install script and"
    echo -n "remove the symbolic links ([y]es, [n]o)? "
else
    echo "It is recommended that you make these lines your new installation script."
    echo
    echo "Would you like to make this stuff the install script for this package"
    echo -n "and remove the symbolic links ([y]es, [n]o)? "
fi
if [ ! "$LINKADD" ]; then
    read LINKADD;
    echo
else
    echo $LINKADD
    echo
fi
if [ "$LINKADD" = "y" ]; then
if [ -r install/doinst.sh ]; then
    UPDATE="t"
    cat doinst.sh >> install/doinst.sh

```

```

else
    mkdir install
    cat doinst.sh > install/doinst.sh
fi
echo
echo "Removing symbolic links:"
find . -type l -exec rm -v {} \;
echo
if [ "$UPDATE" = "t" ]; then
    echo "Updating your ./install/doinst.sh..."
else
    echo "Creating your new ./install/doinst.sh..."
fi
fi
else
echo "No symbolic links were found, so we won't make an installation script."
echo "You can make your own later in ./install/doinst.sh and rebuild the"
echo "package if you like."
fi
rm -f doinst.sh $INST
echo
echo "This next step is optional - you can set the directories in your package"
echo "to some sane permissions. If any of the directories in your package have"
echo "special permissions, then DO NOT reset them here!"
echo
echo "Would you like to reset all directory permissions to 755 (drwxr-xr-x) and"
echo -n "directory ownerships to root.root ([y]es, [n]o)? "
if [ ! "$CHOWN" ]; then
    read CHOWN;
    echo
else
    echo $CHOWN
    echo
fi
if [ "$CHOWN" = "y" ]; then
    find . -type d -exec chmod -v 755 {} \;
    find . -type d -exec chown -v root.root {} \;
fi
echo
echo "Creating tar file $STAR_NAME.tar..."
echo
$STAR cvf $STAR_NAME.tar .
# Warn of zero-length files:
find . -type f -size 0c | while read file ; do
    echo "WARNING: zero length file $file"
done
find . -type f -name '*.gz' -size 20c | while read file ; do
    echo "WARNING: possible empty gzipped file $file"

```

```

done
echo
echo "Gzipping $STAR_NAME.tar..."
gzip -9 $STAR_NAME.tar
echo
echo "Renaming $STAR_NAME.tar.gz to $PACKAGE_NAME..."
mv $STAR_NAME.tar.gz $PACKAGE_NAME
if [ ! "$TARGET_NAME" = "." ]; then
    echo
    echo "Moving $PACKAGE_NAME to $TARGET_NAME..."
    mv $PACKAGE_NAME $TARGET_NAME
fi
echo
echo "Package creation complete."
echo
#!/bin/sh
#
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# ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
# Wed, 27 Apr 1994 00:06:50 -0700 (PDT)
# Optimization by David Hinds.

SOURCE_DIR=/var/log/mount
ASK="tagfiles"
if [ -L /bin/chmod -a -L /bin/chown ]; then # probably on the bootdisk using busybox
TARGET_DIR=/mnt
TMP=/mnt/var/log/setup/tmp

```

```

if mount | grep "on /mnt" 1> /dev/null 2>&1 ; then # good
    true
else # bad
    echo
    echo
    echo "You can't run pkgtool from the rootdisk until you've mounted your Linux"
    echo "partitions beneath /mnt. Here are some examples of this:"
    echo
    echo "If your root partition is /dev/hda1, and is using ext2fs, you would type:"
    echo "mount /dev/hda1 /mnt -t ext2"
    echo
    echo "Then, supposing your /usr partition is /dev/hda2, you must do this:"
    echo "mount /dev/hda2 /mnt/usr -t ext2"
    echo
    echo "Please mount your Linux partitions and then run pkgtool again."
    echo
    exit
fi
else
TARGET_DIR=/
TMP=/var/log/setup/tmp
fi
if [ ! -d $TMP ]; then
mkdir -p $TMP
chmod 700 $TMP
fi
ADM_DIR=$TARGET_DIR/var/log
LOG=$TMP/PKGTOOL.REMOVED

# remove whitespace
crunch() {
while read FOO ; do
    echo $FOO
done
}

package_name() {
STRING='basename $1 .tgz'
# Check for old style package name with one segment:
if [ ""echo $STRING | cut -f 1 -d -" = "echo $STRING | cut -f 2 -d -" ]; then
    echo $STRING
else # has more than one dash delimited segment
    # Count number of segments:
    INDEX=1
    while [ ! ""echo $STRING | cut -f $INDEX -d -" = "" ]; do
        INDEX='expr $INDEX + 1'
    done
    INDEX='expr $INDEX - 1' # don't include the null value

```

```

# If we don't have four segments, return the old-style (or out of spec) package name:
if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
    echo $STRING
else # we have four or more segments, so we'll consider this a new-style name:
    NAME='expr $INDEX - 3'
    NAME="echo $STRING | cut -f 1-$NAME -d -"
    echo $NAME
    # cruft for later ;)
    #VER='expr $INDEX - 2'
    #VER="echo $STRING | cut -f $VER -d -"
    #ARCH='expr $INDEX - 1'
    #ARCH="echo $STRING | cut -f $ARCH -d -"
    #BUILD="echo $STRING | cut -f $INDEX -d -"
fi
fi
}

```

```

remove_packages() {
for pkg_name in $*
do
if [ -r $ADM_DIR/packages/$pkg_name ]; then
    dialog --title "PACKAGE REMOVAL IN PROGRESS" --cr-wrap --infobox \
"\nRemoving package $pkg_name.\n\
\n\
Since each file must be checked \
against the contents of every other installed package to avoid wiping out \
areas of overlap, this process can take quite some time. If you'd like to \
watch the progress, flip over to another virtual console and type:\n\
\n\
tail -f $TMP/PKGTOOL.REMOVED\n" 13 60
    export ROOT=$TARGET_DIR
    removepkg $pkg_name >> $LOG 2> /dev/null
else
    echo "No such package: $pkg_name. Can't remove." >> $LOG
fi
done
}

```

```

# Here, we read the list of arguments passed to the pkgtool script.
if [ $# -gt 0 ]; then # there are arguments to the command
while [ $# -gt 0 ]; do
case "$1" in
"-sets")
    DISK_SETS='echo $2 | tr "[A-Z]" "[a-z]"; shift 2 ;;
"-source_mounted")
    SOURCE_MOUNTED="always"; shift 1 ;;
"-ignore_tagfiles")
    ASK="never"; shift 1 ;;

```



```

"-tagfile")
    USETAG=$2 ; shift 2 ;;
"-source_dir")
    SOURCE_DIR=$2 ; shift 2 ;;
"-target_dir")
    TARGET_DIR=$2
    ADM_DIR=$TARGET_DIR/var/log
    shift 2 ;;
"-source_device")
    SOURCE_DEVICE=$2 ; shift 2 ;;
esac
done
else # there were no arguments, so we'll get the needed information from the
    # user and then go on.
    CMD_START="true"
    rm -f $TMP/SeT*
    while [ 0 ]; do
        dialog --title "Slackware Package Tool (pkgtool version 9.0.0)" \
        --menu "\nWelcome to the Slackware package tool.\n\
\nWhich option would you like?\n" 17 75 7 \
        "Current" "Install packages from the current directory" \
        "Other" "Install packages from some other directory" \
        "Floppy" "Install packages from floppy disks" \
        "Remove" "Remove packages that are currently installed" \
        "View" "View the list of files contained in a package" \
        "Setup" "Choose Slackware installation scripts to run again" \
        "Exit" "Exit Pkgtool" 2> $TMP/reply
        if [ ! $? = 0 ]; then
            rm -f $TMP/reply
            dialog --clear
            exit
        fi
        REPLY="cat $TMP/reply"
        rm -f $TMP/reply
        if [ "$REPLY" = "Exit" ]; then
            dialog --clear
            exit
        fi
        if [ "$REPLY" = "Setup" ]; then
            echo 'dialog --title "SELECT SYSTEM SETUP SCRIPTS" --item-help --checklist \
            "Please use the spacebar to select the setup scripts to run. Hit enter when you \
            are done selecting to run the scripts." 17 70 9 \'> $TMP/setupscr
            for script in $ADM_DIR/setup/setup.* ; do
                BLURB='grep '#BLURB' $script | cut -b8-'
                if [ "$BLURB" = "" ]; then
                    BLURB="\\"
                fi
                echo " \\"basename $script | cut -f2- -d .\\" $BLURB \\"no\\" $BLURB \\" >> $TMP/setupscr
            done
        fi
    done

```

```

done
echo "2> $TMP/return" >> $TMP/setupscr
. $TMP/setupscr
if [ ! "cat $TMP/return" = "" ]; then
# Run each script:
for script in 'cat $TMP/return' ; do
scrpath=$ADM_DIR/setup/setup.'echo $script | tr -d \'
rootdevice="mount | head -1 | cut -f 1 -d \'
(COLOR=on ; cd $TARGET_DIR ; . $scrpath / $rootdevice )
done
fi
rm -f $TMP/return $TMP/setupscr
continue
fi # end Setup
if [ "$REPLY" = "View" ]; then
DEFITEM=""
export DEFITEM
dialog --title "SCANNING" --infobox "Please wait while \
Pkgtool scans your system to determine which packages you have \
installed and prepares a list for you." 0 0
echo 'dialog $DEFITEM --item-help --menu "Please select the package you wish to view." 17 68 10 \' >
$TMP/viewscr
for name in 'ls $ADM_DIR/packages' ; do
pkg_name='package_name $name'
BLURB="sed -n \"/$pkg_name:/{s^//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"
# Let's have some backward compatibility with the interim beta (for now):
if [ "$BLURB" = "" ]; then
BLURB="sed -n \"/$name:/{s^//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"
fi
echo "\$name\" \"$BLURB\" \"View information about package $name\" \"\" >> $TMP/viewscr
done
echo "2> $TMP/return" >> $TMP/viewscr
while [ 0 ]; do
. $TMP/viewscr
if [ ! "cat $TMP/return" = "" ]; then
DEFITEM="--default-item 'cat $TMP/return'"
dialog --title "CONTENTS OF PACKAGE: 'cat $TMP/return'" --no-shadow --textbox "$ADM_DIR/packages/cat
$TMP/return" \
0 0 2> /dev/null
else
break
fi
done
rm -f $TMP/return $TMP/viewscr $TMP/tmpmsg
# This will clean up after most defective packages:
chmod 755 /
chmod 1777 /tmp
continue

```

```

fi
if [ "$REPLY" = "Remove" ]; then
    dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans \
your system to determine which packages you have installed and prepares \
a list for you." 0 0
    # end section
    cat << EOF > $TMP/rmscript
dialog --title "SELECT PACKAGES TO REMOVE" --item-help --checklist \
"Please select the \
packages you wish to Remove. Use the \
spacebar to select packages to delete, and the UP/DOWN arrow keys to \
scroll up and down through the entire list." 20 75 11 \\
EOF
for name in `ls $ADM_DIR/packages` ; do
    pkg_name='package_name $name'
    BLURB="`sed -n \"/\$pkg_name:/{s/\"//g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch\"
# Let's have some backward compatibility with the interim beta (for now):
if [ "$BLURB" = "" ]; then
    BLURB="`sed -n \"/\$name:/{s/\"//g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch\"
fi
echo "\"$name\" \"$BLURB\" off \"Select/Unselect removing package $name\" \"\" >> $TMP/rmscript
done
echo "2> $TMP/return" >> $TMP/rmscript
if [ -L $LOG -o -r $LOG ]; then
    rm -f $LOG
fi
cat /dev/null > $LOG
chmod 600 $LOG
chmod 700 $TMP/rmscript
export ADM_DIR;
$TMP/rmscript
remove_packages `cat $TMP/return | tr -d "\042\"
if [ "`cat $TMP/PKGTOOL.REMOVED`" = "" ]; then
    rm -f $TMP/PKGTOOL.REMOVED
    dialog --title "NO PACKAGES REMOVED" --msgbox "Hit OK to return \
to the main menu." 5 40
else
    dialog --title "PACKAGE REMOVAL COMPLETE" --msgbox "The packages have \
been removed. A complete log of the files that were removed has been created \
in $TMP: PKGTOOL.REMOVED." 0 0
fi
rm -f $TMP/rmscript $TMP/return $TMP/tmpmsg $TMP/Set*
chmod 755 /
chmod 1777 /tmp
# No, return to the main menu:
# exit
elif [ "$REPLY" = "Floppy" ]; then
    dialog --title "SELECT FLOPPY DRIVE" --menu "Which floppy drive would \

```

```

you like to install from?" \
11 70 4 \
"/dev/fd0u1440" "1.44 MB first floppy drive" \
"/dev/fd1u1440" "1.44 MB second floppy drive" \
"/dev/fd0h1200" "1.2 MB first floppy drive" \
"/dev/fd1h1200" "1.2 MB second floppy drive" 2> $TMP/wdrive
if [ $? = 1 ]; then
    dialog --clear
    exit
fi
SOURCE_DEVICE="cat $TMP/wdrive"
rm -f $TMP/wdrive
cat << EOF > $TMP/tmpmsg

```

Enter the names of any disk sets you would like to install.  
Separate the sets with a space, like this: a b o i x

To install packages from one disk, hit [enter] without typing anything.

```

EOF
dialog --title "SOFTWARE SELECTION" --inputbox "cat $TMP/tmpmsg" 13 70 2> $TMP/sets
DISK_SETS="cat $TMP/sets"
rm -f $TMP/sets
if [ "$DISK_SETS" = "" ]; then
    DISK_SETS="disk"
else
    DISK_SETS='echo $DISK_SETS | sed 's/ /#/g'
    DISK_SETS="#$DISK_SETS"
fi
break;
elif [ "$REPLY" = "Other" ]; then
    dialog --title "SELECT SOURCE DIRECTORY" --inputbox "Please enter the name of the directory that you wish
to \
install packages from:" 10 50 2> $TMP/pkgdir
if [ $? = 1 ]; then
    rm -f $TMP/pkgdir $TMP/SeT*
    dialog --clear
    exit
fi
SOURCE_DIR="cat $TMP/pkgdir"
SOURCE_MOUNTED="always"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
rm -f $TMP/pkgdir
if [ ! -d $SOURCE_DIR ]; then
    dialog --title "DIRECTORY NOT FOUND" --msgbox "The directory you want to \

```

```

install from ($SOURCE_DIR) \
does not seem to exist. Please check the directory and then try again." \
10 50
    dialog --clear
    exit
fi
break;
else # installing from current directory
SOURCE_MOUNTED="always"
SOURCE_DIR="$PWD"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
break;
fi
done
fi
if [ "$DISK_SETS" = "disk" ]; then
ASK="always"
fi

```

```

mount_the_source() {
# is the source supposed to be mounted already?
if [ "$SOURCE_MOUNTED" = "always" ]; then
# The source should already be mounted, so we test it
if [ ! -d $SOURCE_DIR ]; then # the directory is missing
cat << EOF > $TMP/tmpmsg

```

Your source device cannot be accessed properly.

Please be sure that it is mounted on \$SOURCE\_DIR,  
and that the Slackware disks are found in subdirectories  
of \$SOURCE\_DIR like specified.

```

EOF
    dialog --title "MOUNT ERROR" --msgbox "cat $TMP/tmpmsg" 11 67
    rm -f $TMP/tmpmsg
    exit 1;
fi
return 0;
fi
dialog --title "INSERT DISK" --menu "Please insert disk $1 and \
press ENTER to continue." \
11 50 3 \
"Continue" "Continue with the installation" \
"Skip" "Skip the current disk series" \
"Quit" "Abort the installation process" 2> $TMP/reply
if [ ! $? = 0 ]; then

```

```

REPLY="Quit"
else
REPLY="cat $TMP/reply"
fi
rm -f $TMP/reply
if [ "$REPLY" = "Skip" ]; then
return 1;
fi
if [ "$REPLY" = "Quit" ]; then
dialog --title "ABORTING" --msgbox "Aborting software installation." 5 50
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
exit 1;
fi;
# Old line:
# mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
# New ones: (thanks to Andy Schwierskott!)
go_on=y
not_successfull_mounted=1
while [ "$go_on" = y -a "$not_successfull_mounted" = 1 ]; do
mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
not_successfull_mounted=$?
if [ "$not_successfull_mounted" = 1 ]; then
mount_answer=x
while [ "$mount_answer" != "y" -a "$mount_answer" != "q" ]; do
dialog --title "MOUNT PROBLEM" --menu "Media was not successfully \
mounted! Do you want to \
retry, or quit?" 10 60 2 \
"Yes" "Try to mount the disk again" \
"No" "No, abort." 2> $TMP/mntans
mount_answer="cat $TMP/mntans"
rm -f $TMP/mntans
if [ "$mount_answer" = "Yes" ]; then
mount_answer="y"
else
mount_answer="q"
fi
done
go_on=$mount_answer
fi
done
test $not_successfull_mounted = 0
}

umount_the_source() {
if [ ! "$SOURCE_MOUNTED" = "always" ]; then
umount $SOURCE_DEVICE 1> /dev/null 2>&1
fi;

```

```

}

install_disk() {
mount_the_source $1
if [ $? = 1 ]; then
    umount_the_source;
    return 1;
fi
CURRENT_DISK_NAME="$1"
PACKAGE_DIR=$SOURCE_DIR
if [ "$SOURCE_MOUNTED" = "always" -a ! "$DISK_SETS" = "disk" ]; then
    PACKAGE_DIR=$PACKAGE_DIR/$1
fi

# If this directory is missing or contains no *.tgz files, bail.
if [ ! -d $PACKAGE_DIR ]; then
    return 1
fi
if ls $PACKAGE_DIR/*.tgz 1> /dev/null 2> /dev/null ; then
    true
else
    return 1
fi

#
# look for tagfile for this series and copy into $TMP/tagfile
#
touch $TMP/tagfile
if [ ! "$DISK_SETS" = "disk" ]; then
if [ -r $TMP/SeTtagext ]; then
if [ -r $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' ]; then
    cat $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' >> $TMP/tagfile
else
if [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
fi
fi
fi

#
# Do we need to follow a custom path to the tagfiles?
#
elif [ -r $TMP/SeTtagpath ]; then
    custom_path='cat $TMP/SeTtagpath'
    short_path='basename $PACKAGE_DIR'

# If tagfile exists at the specified custom path, copy it over.
if [ -r $custom_path/$short_path/tagfile ]; then
    cat $custom_path/$short_path/tagfile >> $TMP/tagfile

```

```

else # well, I guess we'll use the default one then.
if [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
fi
fi
#
# We seem to be testing for this too often... maybe this code should
# be optimized a little...
#
elif [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
fi

#
# Execute menus if in QUICK mode:
#
if [ -r $TMP/SeTQUICK -a -r $PACKAGE_DIR/maketag ]; then
if [ ! "$MAKETAG" = "" -a -r $PACKAGE_DIR/$MAKETAG ]; then # use alternate maketag
    sh $PACKAGE_DIR/$MAKETAG
else
    sh $PACKAGE_DIR/maketag
fi
if [ -r $TMP/SeTnewtag ]; then
    mv $TMP/SeTnewtag $TMP/tagfile
fi
fi

#
# Protect tagfile from hacker attack:
#
if [ -r $TMP/tagfile ]; then
    chmod 600 $TMP/tagfile
fi

fi # ! "$DISK_SETS" = "disk"

# It's possible that the tagfile was specified on the command line. If that's
# the case, then we'll just override whatever we figured out up above.
if [ ! "$USETAG" = "" ]; then
    cat $USETAG > $TMP/tagfile
fi

# If there's a catalog file present, use it to check for missing files.
# If not, forget about that and install whatever's there.
if [ "$1" = "single_disk" -o -r $PACKAGE_DIR/disk$1 -o -r $PACKAGE_DIR/package-list.txt ]; then
if [ -r $PACKAGE_DIR/package-list.txt ]; then
    CATALOG_FILE=$PACKAGE_DIR/package-list.txt

```



```

else
  CATALOG_FILE='basename $PACKAGE_DIR/disk*';
fi
if [ -r $PACKAGE_DIR/$CATALOG_FILE -a ! -d $PACKAGE_DIR/$CATALOG_FILE ]; then
if grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE 1> /dev/null 2>&1 ; then
  # First we check for missing packages...
  for PKGTEST in `grep "^CONTENTS:" $PACKAGE_DIR/$CATALOG_FILE | cut -f2- -d : 2> /dev/null` ; do
  # This is not a perfect test. (say emacs is missing but emacs-nox is not)
  if ls $PACKAGE_DIR/$PKGTEST*.tgz 1> /dev/null 2> /dev/null ; then # found something like it
    true
  else
    cat << EOF > $TMP/tmpmsg

```

WARNING!!!

While looking through your index file (\$CATALOG\_FILE),  
I noticed that you might be missing a package:

\$PKGTEST-\\\*-\\\*-\\\*.tgz

that is supposed to be on this disk (disk \$1). You may go  
on with the installation if you wish, but if this is a  
crucial file I'm making no promises that your machine will  
boot.

EOF

```

  dialog --title "FILE MISSING FROM YOUR DISK" --msgbox \
  ""cat $TMP/tmpmsg" 17 67
  fi
  done # checking for missing packages
  # Now we test for extra packages:
  ALLOWED=""grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE | cut -b10- 2> /dev/null""
  for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
  BASE=""basename $PACKAGE_FILENAME .tgz""
  BASE=""package_name $BASE""
  if echo $ALLOWED | grep $BASE 1> /dev/null 2>&1 ; then
    true
  else
    cat << EOF > $TMP/tmpmsg

```

WARNING!!!

While looking through your index file (\$CATALOG\_FILE),  
I noticed that you have this extra package:

(\$BASE.tgz)

that I don't recognize. Please be sure this package is

really supposed to be here, and is not left over from an old version of Slackware. Sometimes this can happen at the archive sites.

EOF

```
    dialog --title "EXTRA FILE FOUND ON YOUR DISK" \  
--msgbox "cat $TMP/tmpmsg" 17 67  
    rm -f $TMP/tmpmsg  
    fi  
done  
fi  
fi  
fi # check for missing/extra packages  
  
# Install the packages:  
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do  
if [ "$PACKAGE_FILENAME" = "$PACKAGE_DIR/*.tgz" ]; then  
    continue;  
fi  
if [ "$ASK" = "never" ]; then # install the package  
    installpkg -root $TARGET_DIR -info -tagfile $TMP/tagfile $PACKAGE_FILENAME  
    ERROR=$?  
elif [ "$ASK" = "tagfiles" ]; then  
    installpkg -root $TARGET_DIR -menu -tagfile $TMP/tagfile $PACKAGE_FILENAME  
    ERROR=$?  
else # ASK should be = always here, and that's how we'll treat it  
    installpkg -root $TARGET_DIR -menu -ask -tagfile $TMP/tagfile $PACKAGE_FILENAME  
    ERROR=$?  
fi  
# Check for abort:  
if [ "$ERROR" = "99" ]; then  
    umount_the_source;  
    chmod 755 $TARGET_DIR  
    chmod 1777 $TARGET_DIR/tmp  
    exit 1;  
fi  
done  
OUTTAHERE="false"  
if [ -r $PACKAGE_DIR/install.end ]; then  
    OUTTAHERE="true"  
fi  
umount_the_source;  
if [ "$OUTTAHERE" = "true" ]; then  
    return 1;  
fi  
}
```

```
install_disk_set() { # accepts one argument: the series name in lowercase.
```

```

SERIES_NAME=$1
CURRENT_DISK_NUMBER="1";
while [ 0 ]; do
# Don't start numbering the directories until 2:
if [ $CURRENT_DISK_NUMBER = 1 ]; then
    DISKTOINSTALL=$SERIES_NAME
else
    DISKTOINSTALL=$SERIES_NAME$CURRENT_DISK_NUMBER
fi
install_disk $DISKTOINSTALL
if [ ! $? = 0 ]; then # install.end was found, or the user chose
    # to quit installing packages.
    return 0;
fi
CURRENT_DISK_NUMBER='expr $CURRENT_DISK_NUMBER + 1'
done;
}

# /* main() */ ;)
if [ "$DISK_SETS" = "disk" ]; then
install_disk single_disk;
ASK="always"
else
touch $TMP/tagfile
chmod 600 $TMP/tagfile
if echo $DISK_SETS | grep "#a#" 1> /dev/null 2>&1; then
    A_IS_NEEDED="true"
else
    A_IS_NEEDED="false"
fi
while [ 0 ];
do
while [ 0 ]; # strip leading #'s
do
if [ "echo $DISK_SETS | cut -b1" = "#" ]; then
    DISK_SETS="echo $DISK_SETS | cut -b2-"
else
    break;
fi
done
if [ "$A_IS_NEEDED" = "true" ]; then
    cat << EOF > $TMP/tmpmsg

--- Installing package series ==>a<==

EOF
    dialog --infobox "cat $TMP/tmpmsg" 5 45
    sleep 1

```

```

rm -f $TMP/tmpmsg
install_disk_set a;
A_IS_NEEDED="false"
fi
count="1"
if [ "echo $DISK_SETS | cut -b$count" = "" ]; then
break; # we be done here :^)
else
count="2"
while [ 0 ]; do
if [ "echo $DISK_SETS | cut -b$count" = "" -o "echo $DISK_SETS | cut -b$count" = "#" ]; then
count="expr $count - 1"
break;
else
count="expr $count + 1"
fi
done
fi
diskset="echo $DISK_SETS | cut -b1-$count"
count="expr $count + 1"
DISK_SETS="echo $DISK_SETS | cut -b$count-"
if [ "$diskset" = "a" ]; then
continue; # we expect this to be done elsewhere
fi
cat << EOF > $TMP/tmpmsg

```

Installing package series ==>\$diskset<==

EOF

```

dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set $diskset;
done
fi

if [ "$DISK_SETS" = "disk" -o "$CMD_START" = "true" ]; then
if [ -r $TMP/tagfile ]; then
rm $TMP/tagfile
fi
dialog --clear
fi
chmod 755 $TARGET_DIR $TARGET_DIR/var $TARGET_DIR/usr
chmod 1777 $TARGET_DIR/tmp
# Copyright 1994, 1995, 1998 Patrick Volkerding, Moorhead, Minnesota USA
# Copyright 2001, Slackware Linux, Inc., Concord, CA USA
# All rights reserved.
#

```

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```
#
```

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```

```
#
```

```
#!/bin/sh
```

```
TAR=tar-1.13
```

```
$TAR --help 1> /dev/null 2> /dev/null
```

```
if [ ! $? = 0 ]; then
```

```
    TAR=tar
```

```
fi
```

```
if [ ! "LC_MESSAGES=C $TAR --version" = "tar (GNU tar) 1.13
```

```
Copyright (C) 1988, 92,93,94,95,96,97,98, 1999 Free Software Foundation, Inc.
```

```
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
```

```
Written by John Gilmore and Jay Fenlason." ]; then
```

```
    echo "WARNING: pkgtools are unstable with tar > 1.13."
```

```
    echo "    You should provide a \"tar-1.13\" in your $PATH."
```

```

sleep 5
fi

if [ $# = 0 ]; then
cat << EOF
Usage: explodepkg package_name [package_name2, ...]

```

Explodes a Slackware compatible software package (or any tar+gzip archive) in the current directory. Equivalent to (for each package listed):

```
( umask 000 ; tar xzvf package_name )
```

Note: This should only be used for debugging or examining packages, not for installing them. It doesn't execute installation scripts or update the package indexes in /var/log/packages/scripts.

```

EOF
fi
for PKG in $* ; do
echo "Exploding package $PKG in current directory:"
( umask 000 ; $STAR xzvf $PKG 2> /dev/null )
if [ -r install/doinst.sh ]; then
echo
echo "An installation script was detected in ./install/doinst.sh, but"
echo "was not executed."
fi
done
#!/bin/sh
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#

```

# Wed Mar 18 15:32:33 CST 1998

# Patched to avoid possible symlink attacks in /tmp.

TAR=tar-1.13

\$TAR --help 1> /dev/null 2> /dev/null

if [ ! \$? = 0 ]; then

  TAR=tar

fi

if [ ! "LC\_MESSAGES=C \$TAR --version" = "tar (GNU tar) 1.13

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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Written by John Gilmore and Jay Fenlason." ]; then

  echo "WARNING: pkgtools are unstable with tar > 1.13."

  echo "    You should provide a \"tar-1.13\" in your \$PATH."

  sleep 5

fi

make\_install\_script() {

  COUNT=1

  LINE="sed -n \"\$COUNT p\" \$1"

  while [ ! "\$LINE" = "" ]; do

    LINKGOESIN="echo \"\$LINE\" | cut -f 1 -d ' '"

    LINKGOESIN="dirname \$LINKGOESIN"

    LINKNAMEIS="echo \"\$LINE\" | cut -f 1 -d ' '"

    LINKNAMEIS="basename \"\$LINKNAMEIS'"

    LINKPOINTSTO="echo \"\$LINE\" | cut -f 3 -d ' '"

    echo "( cd \$LINKGOESIN ; rm -rf \$LINKNAMEIS )"

    echo "( cd \$LINKGOESIN ; ln -sf \$LINKPOINTSTO \$LINKNAMEIS )"

    COUNT='expr \$COUNT + 1'

    LINE="sed -n \"\$COUNT p\" \$1"

  done

}

usage() {

  cat << EOF

Usage: makepkg package\_name.tgz

Makes a Slackware compatible "\*.tgz" package containing the contents of the current and all subdirectories. If symbolic links exist, they will be removed and an installation script will be made to recreate them later. This script will be called "install/doinst.sh". You may add any of your own ash-compatible shell scripts to this file and rebuild the package if you wish.

options:  -l, --linkadd y|n (moves symlinks into doinst.sh: recommended)



-c, --chown y|n (resets all permissions to root:root 755  
- not generally recommended)

If these options are not set, makepkg will prompt as appropriate.

```
EOF  
}
```

```
TMP=/tmp # This can be a hole, but I'm going to be careful about file  
# creation in there, so don't panic. :^)
```

```
# Parse options  
while [ 0 ]; do  
if [ "$1" = "--linkadd" -o "$1" = "-l" ]; then  
if [ "$2" = "y" ]; then  
LINKADD=y  
elif [ "$2" = "n" ]; then  
LINKADD=n  
else  
usage  
exit 2  
fi  
shift 2  
elif [ "$1" = "--chown" -o "$1" = "-c" ]; then  
if [ "$2" = "y" ]; then  
CHOWN=y  
elif [ "$2" = "n" ]; then  
CHOWN=n  
else  
usage  
exit 2  
fi  
shift 2  
elif [ "$1" = "-h" -o "$1" = "-H" -o "$1" = "--help" -o $# = 0 ]; then  
usage  
exit 0  
else  
break  
fi  
done  
  
echo  
echo "Slackware package maker, version 2.0."  
PACKAGE_NAME=$1  
TARGET_NAME=""dirname $PACKAGE_NAME""  
PACKAGE_NAME=""basename $PACKAGE_NAME""  
TAR_NAME=""basename $PACKAGE_NAME .tgz""  
echo  
echo "Searching for symbolic links:"
```

```

# Get rid of possible pre-existing trouble:
INST='mktmp $TMP/makepkg.XXXXXXX'
find . -type l -exec ls -l {} \; | while read foo ; do echo $foo ; done | cut -f 9- -d ' ' | cut -b3- | tee $INST
if [ ! "cat $INST" = "" ]; then
    echo
    echo "Making symbolic link creation script:"
    make_install_script $INST | tee doinst.sh
fi
echo
if [ ! "cat $INST" = "" ]; then
if [ -r install/doinst.sh ]; then
    echo "Unless your existing installation script already contains the code"
    echo "to create these links, you should append these lines to your existing"
    echo "install script. Now's your chance. :^)"
    echo
    echo "Would you like to add this stuff to the existing install script and"
    echo -n "remove the symbolic links ([y]es, [n]o)? "
else
    echo "It is recommended that you make these lines your new installation script."
    echo
    echo "Would you like to make this stuff the install script for this package"
    echo -n "and remove the symbolic links ([y]es, [n]o)? "
fi
if [ ! "$LINKADD" ]; then
    read LINKADD;
    echo
else
    echo $LINKADD
    echo
fi
if [ "$LINKADD" = "y" ]; then
if [ -r install/doinst.sh ]; then
    UPDATE="t"
    cat doinst.sh >> install/doinst.sh
else
    mkdir install
    cat doinst.sh > install/doinst.sh
fi
echo
echo "Removing symbolic links:"
find . -type l -exec rm -v {} \;
echo
if [ "$UPDATE" = "t" ]; then
    echo "Updating your ./install/doinst.sh..."
else
    echo "Creating your new ./install/doinst.sh..."
fi
fi

```

```

else
echo "No symbolic links were found, so we won't make an installation script."
echo "You can make your own later in ./install/doinst.sh and rebuild the"
echo "package if you like."
fi
rm -f doinst.sh $INST
echo
echo "This next step is optional - you can set the directories in your package"
echo "to some sane permissions. If any of the directories in your package have"
echo "special permissions, then DO NOT reset them here!"
echo
echo "Would you like to reset all directory permissions to 755 (drwxr-xr-x) and"
echo -n "directory ownerships to root.root ([y]es, [n]o)? "
if [ ! "$CHOWN" ]; then
read CHOWN;
echo
else
echo $CHOWN
echo
fi
if [ "$CHOWN" = "y" ]; then
find . -type d -exec chmod -v 755 {} \;
find . -type d -exec chown -v root.root {} \;
fi
echo
echo "Creating tar file $STAR_NAME.tar..."
echo
$STAR cvf $STAR_NAME.tar .
# Warn of zero-length files:
find . -type f -size 0c | while read file ; do
echo "WARNING: zero length file $file"
done
find . -type f -name '*.gz' -size 20c | while read file ; do
echo "WARNING: possible empty gzipped file $file"
done
echo
echo "Gzipping $STAR_NAME.tar..."
gzip -9 $STAR_NAME.tar
echo
echo "Renaming $STAR_NAME.tar.gz to $PACKAGE_NAME..."
mv $STAR_NAME.tar.gz $PACKAGE_NAME
if [ ! "$TARGET_NAME" = "." ]; then
echo
echo "Moving $PACKAGE_NAME to $TARGET_NAME..."
mv $PACKAGE_NAME $TARGET_NAME
fi
echo
echo "Package creation complete."

```

```

echo
#!/bin/sh
#
# Copyright 1993, 1994, 1995, 1996, 1997,
# 1998, 1999 Patrick Volkerding, Moorhead, MN USA
# Copyright 2001 Slackware Linux, Inc., Concord, CA USA
# All rights reserved.
#
# Redistribution and use of this script, with or without modification, is
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#
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# WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
# OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
# ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#

# Wed, 27 Apr 1994 00:06:50 -0700 (PDT)
# Optimization by David Hinds.

SOURCE_DIR=/var/log/mount
ASK="tagfiles"
if [ -L /bin/chmod -a -L /bin/chown ]; then # probably on the bootdisk using busybox
TARGET_DIR=/mnt
TMP=/mnt/var/log/setup/tmp
if mount | grep "on /mnt" 1> /dev/null 2>&1 ; then # good
true
else # bad
echo
echo
echo "You can't run pkgtool from the rootdisk until you've mounted your Linux"
echo "partitions beneath /mnt. Here are some examples of this:"
echo
echo "If your root partition is /dev/hda1, and is using ext2fs, you would type:"
echo "mount /dev/hda1 /mnt -t ext2"
echo
echo "Then, supposing your /usr partition is /dev/hda2, you must do this:"
echo "mount /dev/hda2 /mnt/usr -t ext2"
echo

```

```

echo "Please mount your Linux partitions and then run pkgtool again."
echo
exit
fi
else
TARGET_DIR=/
TMP=/var/log/setup/tmp
fi
if [ ! -d $TMP ]; then
mkdir -p $TMP
chmod 700 $TMP
fi
ADM_DIR=$TARGET_DIR/var/log
LOG=$TMP/PKGTOOL.REMOVED

# remove whitespace
crunch() {
while read FOO ; do
echo $FOO
done
}

package_name() {
STRING='basename $1 .tgz'
# Check for old style package name with one segment:
if [ ""echo $STRING | cut -f 1 -d -" = ""echo $STRING | cut -f 2 -d -" ]; then
echo $STRING
else # has more than one dash delimited segment
# Count number of segments:
INDEX=1
while [ ! ""echo $STRING | cut -f $INDEX -d -" = "" ]; do
INDEX='expr $INDEX + 1'
done
INDEX='expr $INDEX - 1' # don't include the null value
# If we don't have four segments, return the old-style (or out of spec) package name:
if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
echo $STRING
else # we have four or more segments, so we'll consider this a new-style name:
NAME='expr $INDEX - 3'
NAME=""echo $STRING | cut -f 1-$NAME -d -"
echo $NAME
# cruft for later ;)
#VER='expr $INDEX - 2'
#VER=""echo $STRING | cut -f $VER -d -"
#ARCH='expr $INDEX - 1'
#ARCH=""echo $STRING | cut -f $ARCH -d -"
#BUILD=""echo $STRING | cut -f $INDEX -d -"
fi

```

```

fi
}

remove_packages() {
for pkg_name in $*
do
if [ -r $ADM_DIR/packages/$pkg_name ]; then
    dialog --title "PACKAGE REMOVAL IN PROGRESS" --cr-wrap --infobox \
"\nRemoving package $pkg_name.\n\
\n\
Since each file must be checked \
against the contents of every other installed package to avoid wiping out \
areas of overlap, this process can take quite some time. If you'd like to \
watch the progress, flip over to another virtual console and type:\n\
\n\
tail -f $TMP/PKGTOOL.REMOVED\n" 13 60
    export ROOT=$TARGET_DIR
    removepkg $pkg_name >> $LOG 2> /dev/null
else
    echo "No such package: $pkg_name. Can't remove." >> $LOG
fi
done
}

```

```

# Here, we read the list of arguments passed to the pkgtool script.
if [ $# -gt 0 ]; then # there are arguments to the command
while [ $# -gt 0 ]; do
case "$1" in
"-sets")
    DISK_SETS='echo $2 | tr "[A-Z]" "[a-z]"; shift 2 ;;
"-source_mounted")
    SOURCE_MOUNTED="always"; shift 1 ;;
"-ignore_tagfiles")
    ASK="never"; shift 1 ;;
"-tagfile")
    USETAG=$2; shift 2 ;;
"-source_dir")
    SOURCE_DIR=$2; shift 2 ;;
"-target_dir")
    TARGET_DIR=$2
    ADM_DIR=$TARGET_DIR/var/log
    shift 2 ;;
"-source_device")
    SOURCE_DEVICE=$2; shift 2 ;;
esac
done
else # there were no arguments, so we'll get the needed information from the
    # user and then go on.

```

```

CMD_START="true"
rm -f $TMP/SeT*
while [ 0 ]; do
    dialog --title "Slackware Package Tool (pkgtool version 9.0.0)" \
--menu "\nWelcome to the Slackware package tool.\n\
\nWhich option would you like?\n" 17 75 7 \
"Current" "Install packages from the current directory" \
"Other" "Install packages from some other directory" \
"Floppy" "Install packages from floppy disks" \
"Remove" "Remove packages that are currently installed" \
"View" "View the list of files contained in a package" \
"Setup" "Choose Slackware installation scripts to run again" \
"Exit" "Exit Pkgtool" 2> $TMP/reply
    if [ ! $? = 0 ]; then
        rm -f $TMP/reply
        dialog --clear
        exit
    fi
    REPLY="cat $TMP/reply"
    rm -f $TMP/reply
    if [ "$REPLY" = "Exit" ]; then
        dialog --clear
        exit
    fi
    if [ "$REPLY" = "Setup" ]; then
        echo 'dialog --title "SELECT SYSTEM SETUP SCRIPTS" --item-help --checklist \
"Please use the spacebar to select the setup scripts to run. Hit enter when you \
are done selecting to run the scripts." 17 70 9 \' > $TMP/setupscr
        for script in $ADM_DIR/setup/setup.* ; do
            BLURB='grep #BLURB' $script | cut -b8-'
            if [ "$BLURB" = "" ]; then
                BLURB="\\"
            fi
            echo " \"basename $script | cut -f2- -d .\" $BLURB \"no\" $BLURB \\" >> $TMP/setupscr
        done
        echo "2> $TMP/return" >> $TMP/setupscr
        . $TMP/setupscr
        if [ ! "cat $TMP/return" = "" ]; then
            # Run each script:
            for script in 'cat $TMP/return' ; do
                scrpath=$ADM_DIR/setup/setup.'echo $script | tr -d \"
                rootdevice=""mount | head -1 | cut -f 1 -d ' '""
                ( COLOR=on ; cd $TARGET_DIR ; . $scrpath / $rootdevice )
            done
        fi
        rm -f $TMP/return $TMP/setupscr
        continue
    fi # end Setup

```

```

if [ "$REPLY" = "View" ]; then
    DEFITEM=""
    export DEFITEM
    dialog --title "SCANNING" --infobox "Please wait while \
Pkgtool scans your system to determine which packages you have \
installed and prepares a list for you." 0 0
    echo 'dialog $DEFITEM --item-help --menu "Please select the package you wish to view." 17 68 10\' >
$TMP/viewscr
    for name in `ls $ADM_DIR/packages` ; do
        pkg_name='package_name $name'
        BLURB="`sed -n \"/\$pkg_name:/{s\\/\\/g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch\"
# Let's have some backward compatibility with the interim beta (for now):
if [ "$BLURB" = "" ]; then
    BLURB="`sed -n \"/\$name:/{s\\/\\/g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch\"
fi
        echo "\"$name\" \"$BLURB\" \"View information about package $name\" \"\" >> $TMP/viewscr
    done
    echo "2> $TMP/return" >> $TMP/viewscr
    while [ 0 ]; do
        . $TMP/viewscr
        if [ ! "cat $TMP/return" = "" ]; then
            DEFITEM="--default-item 'cat $TMP/return'"
            dialog --title "CONTENTS OF PACKAGE: 'cat $TMP/return'" --no-shadow --textbox "$ADM_DIR/packages/cat
$TMP/return" \
                0 0 2> /dev/null
            else
                break
            fi
        done
        rm -f $TMP/return $TMP/viewscr $TMP/tmpmsg
        # This will clean up after most defective packages:
        chmod 755 /
        chmod 1777 /tmp
        continue
    fi
    if [ "$REPLY" = "Remove" ]; then
        dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans \
your system to determine which packages you have installed and prepares \
a list for you." 0 0
        # end section
        cat << EOF > $TMP/rmscript
        dialog --title "SELECT PACKAGES TO REMOVE" --item-help --checklist \
        "Please select the \
packages you wish to Remove. Use the \
spacebar to select packages to delete, and the UP/DOWN arrow keys to \
scroll up and down through the entire list." 20 75 11 \\
        EOF
        for name in `ls $ADM_DIR/packages` ; do

```



```

pkg_name='package_name $name'
BLURB="sed -n \"/$pkg_name:/{s/\\/\\/g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"
# Let's have some backward compatibility with the interim beta (for now):
if [ "$BLURB" = "" ]; then
    BLURB="sed -n \"/$name:/{s/\\/\\/g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"
fi
echo "\"$name\" \"$BLURB\" off \"Select/Unselect removing package $name\" \"\" >> $TMP/rmscript
done
echo "2> $TMP/return" >> $TMP/rmscript
if [ -L $LOG -o -r $LOG ]; then
    rm -f $LOG
fi
cat /dev/null > $LOG
chmod 600 $LOG
chmod 700 $TMP/rmscript
export ADM_DIR;
$TMP/rmscript
remove_packages 'cat $TMP/return | tr -d "\042"'
if [ "cat $TMP/PKGTOOL.REMOVED" = "" ]; then
    rm -f $TMP/PKGTOOL.REMOVED
    dialog --title "NO PACKAGES REMOVED" --msgbox "Hit OK to return \
to the main menu." 5 40
else
    dialog --title "PACKAGE REMOVAL COMPLETE" --msgbox "The packages have \
been removed. A complete log of the files that were removed has been created \
in $TMP: PKGTOOL.REMOVED." 0 0
fi
rm -f $TMP/rmscript $TMP/return $TMP/tmpmsg $TMP/Set*
chmod 755 /
chmod 1777 /tmp
# No, return to the main menu:
# exit
elif [ "$REPLY" = "Floppy" ]; then
    dialog --title "SELECT FLOPPY DRIVE" --menu "Which floppy drive would \
you like to install from?" \
11 70 4 \
"/dev/fd0u1440" "1.44 MB first floppy drive" \
"/dev/fd1u1440" "1.44 MB second floppy drive" \
"/dev/fd0h1200" "1.2 MB first floppy drive" \
"/dev/fd1h1200" "1.2 MB second floppy drive" 2> $TMP/wdrive
if [ $? = 1 ]; then
    dialog --clear
    exit
fi
SOURCE_DEVICE="cat $TMP/wdrive"
rm -f $TMP/wdrive
cat << EOF > $TMP/tmpmsg

```

Enter the names of any disk sets you would like to install.

Separate the sets with a space, like this: a b o i x

To install packages from one disk, hit [enter] without typing anything.

EOF

```
dialog --title "SOFTWARE SELECTION" --inputbox "cat $TMP/tmpmsg" 13 70 2> $TMP/sets
DISK_SETS="cat $TMP/sets"
rm -f $TMP/sets
if [ "$DISK_SETS" = "" ]; then
    DISK_SETS="disk"
else
    DISK_SETS='echo $DISK_SETS | sed 's/ /#/g'
    DISK_SETS="#$DISK_SETS"
fi
break;
elif [ "$REPLY" = "Other" ]; then
    dialog --title "SELECT SOURCE DIRECTORY" --inputbox "Please enter the name of the directory that you wish
to \
install packages from:" 10 50 2> $TMP/pkgdir
if [ $? = 1 ]; then
    rm -f $TMP/pkgdir $TMP/SeT*
    dialog --clear
    exit
fi
SOURCE_DIR="cat $TMP/pkgdir"
SOURCE_MOUNTED="always"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
rm -f $TMP/pkgdir
if [ ! -d $SOURCE_DIR ]; then
    dialog --title "DIRECTORY NOT FOUND" --msgbox "The directory you want to \
install from ($SOURCE_DIR) \
does not seem to exist. Please check the directory and then try again." \
10 50
    dialog --clear
    exit
fi
break;
else # installing from current directory
SOURCE_MOUNTED="always"
SOURCE_DIR="$PWD"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
break;
```

```

fi
done
fi
if [ "$DISK_SETS" = "disk" ]; then
ASK="always"
fi

mount_the_source() {
# is the source supposed to be mounted already?
if [ "$SOURCE_MOUNTED" = "always" ]; then
# The source should already be mounted, so we test it
if [ ! -d $SOURCE_DIR ]; then # the directory is missing
cat << EOF > $TMP/tmpmsg

```

Your source device cannot be accessed properly.

Please be sure that it is mounted on \$SOURCE\_DIR,  
and that the Slackware disks are found in subdirectories  
of \$SOURCE\_DIR like specified.

```

EOF
dialog --title "MOUNT ERROR" --msgbox "cat $TMP/tmpmsg" 11 67
rm -f $TMP/tmpmsg
exit 1;
fi
return 0;
fi
dialog --title "INSERT DISK" --menu "Please insert disk $1 and \
press ENTER to continue." \
11 50 3 \
"Continue" "Continue with the installation" \
"Skip" "Skip the current disk series" \
"Quit" "Abort the installation process" 2> $TMP/reply
if [ ! $? = 0 ]; then
REPLY="Quit"
else
REPLY="cat $TMP/reply"
fi
rm -f $TMP/reply
if [ "$REPLY" = "Skip" ]; then
return 1;
fi
if [ "$REPLY" = "Quit" ]; then
dialog --title "ABORTING" --msgbox "Aborting software installation." 5 50
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
exit 1;
fi;

```

```

# Old line:
# mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
# New ones: (thanks to Andy Schwierskott!)
go_on=y
not_successfull_mounted=1
while [ "$go_on" = y -a "$not_successfull_mounted" = 1 ]; do
    mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
    not_successfull_mounted=$?
    if [ "$not_successfull_mounted" = 1 ]; then
        mount_answer=x
        while [ "$mount_answer" != "y" -a "$mount_answer" != "q" ]; do
            dialog --title "MOUNT PROBLEM" --menu "Media was not successfully \
mounted! Do you want to \
retry, or quit?" 10 60 2 \
"Yes" "Try to mount the disk again" \
"No" "No, abort." 2> $TMP/mntans
            mount_answer="'cat $TMP/mntans'"
            rm -f $TMP/mntans
            if [ "$mount_answer" = "Yes" ]; then
                mount_answer="y"
            else
                mount_answer="q"
            fi
        done
        go_on=$mount_answer
    fi
done
test $not_successfull_mounted = 0
}

umount_the_source() {
if [ ! "$SOURCE_MOUNTED" = "always" ]; then
    umount $SOURCE_DEVICE 1> /dev/null 2>&1
fi;
}

install_disk() {
mount_the_source $1
if [ $? = 1 ]; then
    umount_the_source;
    return 1;
fi
CURRENT_DISK_NAME="$1"
PACKAGE_DIR=$SOURCE_DIR
if [ "$SOURCE_MOUNTED" = "always" -a ! "$DISK_SETS" = "disk" ]; then
    PACKAGE_DIR=$PACKAGE_DIR/$1
fi
}

```

```

# If this directory is missing or contains no *.tgz files, bail.
if [ ! -d $PACKAGE_DIR ]; then
    return 1
fi
if ls $PACKAGE_DIR/*.tgz 1> /dev/null 2> /dev/null ; then
    true
else
    return 1
fi

#
# look for tagfile for this series and copy into $TMP/tagfile
#
touch $TMP/tagfile
if [ ! "$DISK_SETS" = "disk" ]; then
if [ -r $TMP/SeTtagext ]; then
    if [ -r $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' ]; then
        cat $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' >> $TMP/tagfile
    else
        if [ -r $PACKAGE_DIR/tagfile ]; then
            cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
        fi
    fi
fi

#
# Do we need to follow a custom path to the tagfiles?
#
elif [ -r $TMP/SeTtagpath ]; then
    custom_path='cat $TMP/SeTtagpath'
    short_path='basename $PACKAGE_DIR'

    # If tagfile exists at the specified custom path, copy it over.
    if [ -r $custom_path/$short_path/tagfile ]; then
        cat $custom_path/$short_path/tagfile >> $TMP/tagfile

    else # well, I guess we'll use the default one then.
        if [ -r $PACKAGE_DIR/tagfile ]; then
            cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
        fi
    fi
fi

#
# We seem to be testing for this too often... maybe this code should
# be optimized a little...
#
elif [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
fi

```

```

#
# Execute menus if in QUICK mode:
#
if [ -r $TMP/SeTQUICK -a -r $PACKAGE_DIR/maketag ]; then
if [ ! "$MAKETAG" = "" -a -r $PACKAGE_DIR/$MAKETAG ]; then # use alternate maketag
sh $PACKAGE_DIR/$MAKETAG
else
sh $PACKAGE_DIR/maketag
fi
if [ -r $TMP/SeTnewtag ]; then
mv $TMP/SeTnewtag $TMP/tagfile
fi
fi

#
# Protect tagfile from hacker attack:
#
if [ -r $TMP/tagfile ]; then
chmod 600 $TMP/tagfile
fi

fi # ! "$DISK_SETS" = "disk"

# It's possible that the tagfile was specified on the command line. If that's
# the case, then we'll just override whatever we figured out up above.
if [ ! "$USETAG" = "" ]; then
cat $USETAG > $TMP/tagfile
fi

# If there's a catalog file present, use it to check for missing files.
# If not, forget about that and install whatever's there.
if [ "$1" = "single_disk" -o -r $PACKAGE_DIR/disk$1 -o -r $PACKAGE_DIR/package-list.txt ]; then
if [ -r $PACKAGE_DIR/package-list.txt ]; then
CATALOG_FILE=$PACKAGE_DIR/package-list.txt
else
CATALOG_FILE='basename $PACKAGE_DIR/disk*';
fi
if [ -r $PACKAGE_DIR/$CATALOG_FILE -a ! -d $PACKAGE_DIR/$CATALOG_FILE ]; then
if grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE 1> /dev/null 2>&1 ; then
# First we check for missing packages...
for PKGTEST in `grep "^CONTENTS:" $PACKAGE_DIR/$CATALOG_FILE | cut -f2- -d : 2> /dev/null` ; do
# This is not a perfect test. (say emacs is missing but emacs-nox is not)
if ls $PACKAGE_DIR/$PKGTEST*.tgz 1> /dev/null 2> /dev/null ; then # found something like it
true
else
cat << EOF > $TMP/tmpmsg

```

WARNING!!!

While looking through your index file (\$CATALOG\_FILE),  
I noticed that you might be missing a package:

```
$PKGTEST-\*-\*-\*.tgz
```

that is supposed to be on this disk (disk \$1). You may go  
on with the installation if you wish, but if this is a  
crucial file I'm making no promises that your machine will  
boot.

EOF

```
dialog --title "FILE MISSING FROM YOUR DISK" --msgbox \  
"cat $TMP/tmpmsg" 17 67  
fi  
done # checking for missing packages  
# Now we test for extra packages:  
ALLOWED="grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE | cut -b10- 2> /dev/null"  
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do  
BASE="basename $PACKAGE_FILENAME .tgz"  
BASE="package_name $BASE"  
if echo $ALLOWED | grep $BASE 1> /dev/null 2>&1 ; then  
true  
else  
cat << EOF > $TMP/tmpmsg
```

WARNING!!!

While looking through your index file (\$CATALOG\_FILE),  
I noticed that you have this extra package:

```
($BASE.tgz)
```

that I don't recognize. Please be sure this package is  
really supposed to be here, and is not left over from an  
old version of Slackware. Sometimes this can happen at the  
archive sites.

EOF

```
dialog --title "EXTRA FILE FOUND ON YOUR DISK" \  
--msgbox "cat $TMP/tmpmsg" 17 67  
rm -f $TMP/tmpmsg  
fi  
done  
fi  
fi  
fi # check for missing/extra packages
```

```

# Install the packages:
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
if [ "$PACKAGE_FILENAME" = "$PACKAGE_DIR/*.tgz" ]; then
    continue;
fi
if [ "$ASK" = "never" ]; then # install the package
    installpkg -root $TARGET_DIR -info box -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
elif [ "$ASK" = "tagfiles" ]; then
    installpkg -root $TARGET_DIR -menu -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
else # ASK should be = always here, and that's how we'll treat it
    installpkg -root $TARGET_DIR -menu -ask -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
fi
# Check for abort:
if [ "$ERROR" = "99" ]; then
    umount_the_source;
    chmod 755 $TARGET_DIR
    chmod 1777 $TARGET_DIR/tmp
    exit 1;
fi
done
OUTTAHERE="false"
if [ -r $PACKAGE_DIR/install.end ]; then
    OUTTAHERE="true"
fi
umount_the_source;
if [ "$OUTTAHERE" = "true" ]; then
    return 1;
fi
}

install_disk_set() { # accepts one argument: the series name in lowercase.
SERIES_NAME=$1
CURRENT_DISK_NUMBER="1";
while [ 0 ]; do
# Don't start numbering the directories until 2:
if [ $CURRENT_DISK_NUMBER = 1 ]; then
    DISKTOINSTALL=$SERIES_NAME
else
    DISKTOINSTALL=$SERIES_NAME$CURRENT_DISK_NUMBER
fi
install_disk $DISKTOINSTALL
if [ ! $? = 0 ]; then # install.end was found, or the user chose
    # to quit installing packages.
    return 0;
fi
}

```



```

CURRENT_DISK_NUMBER='expr $CURRENT_DISK_NUMBER + 1'
done;
}

# /* main() */ ;)
if [ "$DISK_SETS" = "disk" ]; then
install_disk single_disk;
ASK="always"
else
touch $TMP/tagfile
chmod 600 $TMP/tagfile
if echo $DISK_SETS | grep "#a#" 1> /dev/null 2>&1; then
A_IS_NEEDED="true"
else
A_IS_NEEDED="false"
fi
while [ 0 ];
do
while [ 0 ]; # strip leading #'s
do
if [ "echo $DISK_SETS | cut -b1" = "#" ]; then
DISK_SETS="echo $DISK_SETS | cut -b2-"
else
break;
fi
done
if [ "$A_IS_NEEDED" = "true" ]; then
cat << EOF > $TMP/tmpmsg

--- Installing package series ==>a<==

EOF
dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set a;
A_IS_NEEDED="false"
fi
count="1"
if [ "echo $DISK_SETS | cut -b$count" = "" ]; then
break; # we be done here :^)
else
count="2"
while [ 0 ]; do
if [ "echo $DISK_SETS | cut -b$count" = "" -o "echo $DISK_SETS | cut -b$count" = "#" ]; then
count="expr $count - 1"
break;
else

```

```

    count="expr $count + 1"
fi
done
fi
diskset="echo $DISK_SETS | cut -b1-$count"
count="expr $count + 1"
DISK_SETS="echo $DISK_SETS | cut -b$count-"
if [ "$diskset" = "a" ]; then
    continue; # we expect this to be done elsewhere
fi
cat << EOF > $TMP/tmpmsg

```

Installing package series ==>\$diskset<==

EOF

```

dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set $diskset;
done
fi

if [ "$DISK_SETS" = "disk" -o "$CMD_START" = "true" ]; then
if [ -r $TMP/tagfile ]; then
    rm $TMP/tagfile
fi
dialog --clear
fi
chmod 755 $TARGET_DIR $TARGET_DIR/var $TARGET_DIR/usr
chmod 1777 $TARGET_DIR/tmp
#!/bin/sh
# Slackware remove package script
#
# Revision 1.8 Thu Nov 22 14:00:13 PST 2001 volkerding Rel $
# - Move $TMP underneath $ROOT
# - Understand the idea of a base package name, so that packages
#   can be removed with any of these notations:
#   removepkg foo-1.0-i386-1.tgz
#   removepkg foo-1.0-i386-1
#   removepkg foo.tgz
#   removepkg foo
#
# Revision 1.7 2001/03/30 12:36:28 volkerding
# - Strip extra ".tgz" from input names.
#
# Revision 1.6 1999/03/25 18:26:41 volkerding
# - Use external $ROOT variable, like installpkg.
#

```

```
# Revision 1.5.1 1998/03/18 15:37:28 volkerding
# - Since removepkg is always run by root, the temp directory has been
# moved from /tmp to a private directory to avoid symlink attacks from
# malicious users.
#
# Revision 1.5 1997/06/26 12:09:53 franke
# - Fixed old bug in TRIGGER regex setting
# - -preserve/-copy options now preserve non-unique files
# and empty directories also
#
# Revision 1.4 1997/06/09 13:21:36 franke
# - Package file preserve (-preserve, -copy) added.
# - Don't execute "rm -rf" lines from doinst.sh, removing links explicit.
# - Warning on no longer existing files added.
# - Warning on files changed after package installation added.
# - Intermediate file preserve (-keep) added.
# - Check for required files/links now done on a combined list.
# - Write access to /var/log/{packages,scripts} no longer necessary for -warn.
#
# Revision 1.3 1997/06/08 13:03:05 franke
# Merged with revision 1.1.1.1
#
# Revision 1.2 1996/06/01 20:04:26 franke
# Delete empty directories & formatted manual pages added
#
# Revision 1.1.1.1 1995/12/18 21:20:42 volkerding
# Original Version from Slackware 3.1
#
# Revision 1.1 1995/06/05 22:49:11 volkerding
# Original Version from Slackware 3.0
#

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# OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF  
# ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
#
```

```
# Make sure there's a proper temp directory:
```

```
TMP=$ROOT/var/log/setup/tmp
```

```
# If the $TMP directory doesn't exist, create it:
```

```
if [ ! -d $TMP ]; then
```

```
rm -rf $TMP # make sure it's not a symlink or something stupid
```

```
mkdir -p $TMP
```

```
chmod 700 $TMP # no need to leave it open
```

```
fi
```

```
ADM_DIR=$ROOT/var/log
```

```
PRES_DIR=$TMP/preserved_packages
```

```
cat_except() {
```

```
( cd "$1" && cat 'ls * | sed "/^$2$/d"' )
```

```
}
```

```
extract_links() {
```

```
sed -n 's,^( *cd \([^;]*\); *rm -rf \([^;]*\); *$,1/2,p'
```

```
}
```

```
preserve_file() {
```

```
if [ "$PRESERVE" = "true" ]; then
```

```
F="basename "$1""
```

```
D="dirname "$1""
```

```
if [ ! -d "$PRES_DIR/$PKGNAME/$D" ]; then
```

```
mkdir -p "$PRES_DIR/$PKGNAME/$D" || return 1
```

```
fi
```

```
cp -p "$ROOT/$D/$F" "$PRES_DIR/$PKGNAME/$D" || return 1
```

```
fi
```

```
return 0
```

```
}
```

```
preserve_dir() {
```

```
if [ "$PRESERVE" = "true" ]; then
```

```
if [ ! -d "$PRES_DIR/$PKGNAME/$1" ]; then
```

```
mkdir -p "$PRES_DIR/$PKGNAME/$1" || return 1
```

```
fi
```

```
fi
```

```
return 0
```

```
}
```

```
keep_files() {
```

```
while read FILE ; do
```

```

if [ ! -d "$ROOT/$FILE" ]; then
if [ -r "$ROOT/$FILE" ]; then
echo " --> $ROOT/$FILE was found in another package. Skipping."
preserve_file "$FILE"
else
if [ ""echo $FILE | cut -b1-8"" != "install/" ]; then
echo "WARNING: Nonexistent $ROOT/$FILE was found in another package. Skipping."
fi
fi
else
preserve_dir "$FILE"
fi
done
}

keep_links() {
while read LINK ; do
if [ -L "$ROOT/$LINK" ]; then
echo " --> $ROOT/$LINK (symlink) was found in another package. Skipping."
else
echo "WARNING: Nonexistent $ROOT/$LINK (symlink) was found in another package. Skipping."
fi
done
}

delete_files() {
while read FILE ; do
if [ ! -d "$ROOT/$FILE" ]; then
if [ -r "$ROOT/$FILE" ]; then
if [ "$ROOT/$FILE" -nt "$ADM_DIR/packages/$PKGNAME" ]; then
echo "WARNING: $ROOT/$FILE changed after package installation."
fi
if [ ! "$WARN" = "true" ]; then
echo " --> Deleting $ROOT/$FILE"
preserve_file "$FILE" && rm -f "$ROOT/$FILE"
else
echo " --> $ROOT/$FILE would be deleted"
preserve_file "$FILE"
fi
else
echo " --> $ROOT/$FILE no longer exists. Skipping."
fi
else
preserve_dir "$FILE"
fi
done
}

```

```

delete_links() {
while read LINK ; do
if [ -L "$ROOT/$LINK" ]; then
if [ ! "$WARN" = "true" ]; then
echo " --> Deleting symlink $ROOT/$LINK"
rm -f $ROOT/$LINK
else
echo " --> $ROOT/$LINK (symlink) would be deleted"
fi
else
echo " --> $ROOT/$LINK (symlink) no longer exists. Skipping."
fi
done
}

delete_dirs() {
sort -r | \
while read DIR ; do
if [ -d "$ROOT/$DIR" ]; then
if [ ! "$WARN" = "true" ]; then
if [ 'ls -a "$ROOT/$DIR" | wc -l' -eq 2 ]; then
echo " --> Deleting empty directory $ROOT/$DIR"
rmdir $ROOT/$DIR
else
echo "WARNING: Unique directory $ROOT/$DIR contains new files"
fi
else
echo " --> $ROOT/$DIR (dir) would be deleted if empty"
fi
fi
done
}

delete_cats() {
sed -n 's,/man\([^/]*$)/,cat\1,p' | \
while read FILE ; do
if [ -f "$ROOT/$FILE" ]; then
if [ ! "$WARN" = "true" ]; then
echo " --> Deleting $ROOT/$FILE (fmt man page)"
rm -f $ROOT/$FILE
else
echo " --> $ROOT/$FILE (fmt man page) would be deleted"
fi
fi
done
}

package_name() {

```

```

STRING='basename $1 .tgz'
# Check for old style package name with one segment:
if [ "echo $STRING | cut -f 1 -d '-' = "echo $STRING | cut -f 2 -d '-' ]; then
    echo $STRING
else # has more than one dash delimited segment
    # Count number of segments:
    INDEX=1
    while [ ! "echo $STRING | cut -f $INDEX -d '-' = "" ]; do
        INDEX='expr $INDEX + 1'
    done
    INDEX='expr $INDEX - 1' # don't include the null value
    # If we don't have four segments, return the old-style (or out of spec) package name:
    if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
        echo $STRING
    else # we have four or more segments, so we'll consider this a new-style name:
        NAME='expr $INDEX - 3'
        NAME="echo $STRING | cut -f 1-$NAME -d '-'"
        echo $NAME
        # cruft for later ;)
        #VER='expr $INDEX - 2'
        #VER="echo $STRING | cut -f $VER -d '-'"
        #ARCH='expr $INDEX - 1'
        #ARCH="echo $STRING | cut -f $ARCH -d '-'"
        #BUILD="echo $STRING | cut -f $INDEX -d '-'"
    fi
fi
}

```

# Conversion to 'comm' utility by Mark Wisdom.

# is pretty nifty! :^)

```
remove_packages() {
```

```
for PKGLIST in $*
```

```
do
```

```
    PKGNAME='basename $PKGLIST .tgz'
```

```
    echo
```

```
    # If we don't have a package match here, then we will attempt to find
```

```
    # a package using the long name format (name-version-arch-build) for
```

```
    # which the base package name was given. On a properly-managed machine,
```

```
    # there should only be one package installed with a given basename, but
```

```
    # we don't enforce this policy. If there's more than one, only one will
```

```
    # be removed. If you want to remove them all, you'll need to run
```

```
    # removepkg again until it removes all the same-named packages.
```

```
    if [ ! -e $ADM_DIR/packages/$PKGNAME ]; then
```

```
        SHORT="package_name $PKGNAME"
```

```
        for long_package in $ADM_DIR/packages/${PKGNAME}* ; do
```

```
            if [ "package_name $PKGNAME" = "package_name $long_package" ]; then
```

```
                PKGNAME="basename $long_package"
```

```
            fi
```

```

done
fi
if [ -r $ADM_DIR/packages/$PKGNAME ]; then
if [ ! "$WARN" = true ]; then
echo "Removing package $ADM_DIR/packages/$PKGNAME..."
fi
if fgrep "/" $ADM_DIR/packages/$PKGNAME 1> /dev/null 2>&1; then
TRIGGER="^\.\"
else
TRIGGER="FILE LIST:"
fi
if [ ! "$WARN" = true ]; then
echo "Removing files:"
fi
sed -n "/$TRIGGER/./^$/p" < $ADM_DIR/packages/$PKGNAME | \
fgrep -v "FILE LIST:" | sort -u > $TMP/delete_list$$
# Pat's new-new && improved pre-removal routine.
cat_except $ADM_DIR/packages $PKGNAME | sort -u > $TMP/required_list$$
if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
extract_links < $ADM_DIR/scripts/$PKGNAME | sort -u > $TMP/del_link_list$$
cat_except $ADM_DIR/scripts $PKGNAME | extract_links | \
sort -u > $TMP/required_links$$
mv $TMP/required_list$$ $TMP/required_files$$
sort -u $TMP/required_links$$ $TMP/required_files$$ > $TMP/required_list$$
comm -12 $TMP/del_link_list$$ $TMP/required_list$$ | keep_links
comm -23 $TMP/del_link_list$$ $TMP/required_list$$ | delete_links
else
cat $ADM_DIR/scripts/* | extract_links | \
sort -u > $TMP/required_links$$
mv $TMP/required_list$$ $TMP/required_files$$
sort -u $TMP/required_links$$ $TMP/required_files$$ > $TMP/required_list$$
fi
comm -12 $TMP/delete_list$$ $TMP/required_list$$ | keep_files
comm -23 $TMP/delete_list$$ $TMP/required_list$$ > $TMP/uniq_list$$
delete_files < $TMP/uniq_list$$
delete_dirs < $TMP/uniq_list$$
delete_cats < $TMP/uniq_list$$
if [ ! "$KEEP" = "true" ]; then
rm -f $TMP/delete_list$$ $TMP/required_files$$ $TMP/uniq_list$$
rm -f $TMP/del_link_list$$ $TMP/required_links$$ $TMP/required_list$$
fi
if [ "$PRESERVE" = "true" ]; then
if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
if [ ! -d "$PRES_DIR/$PKGNAME/install" ]; then
mkdir -p "$PRES_DIR/$PKGNAME/install"
fi
cp -p $ADM_DIR/scripts/$PKGNAME $PRES_DIR/$PKGNAME/install/doinst.sh
fi

```



```

fi
if [ ! "$WARN" = "true" ]; then
for DIR in $ADM_DIR/removed_packages $ADM_DIR/removed_scripts ; do
if [ ! -d $DIR ] ; then mkdir -p $DIR ; chmod 755 $DIR ; fi
done
mv $ADM_DIR/packages/$PKGNAME $ADM_DIR/removed_packages
if [ -r $ADM_DIR/scripts/$PKGNAME ] ; then
mv $ADM_DIR/scripts/$PKGNAME $ADM_DIR/removed_scripts
fi
fi
else
echo "No such package: $ADM_DIR/packages/$PKGNAME. Can't remove."
fi
done
}

if [ "$#" = "0" ] ; then
echo "Usage: 'basename $0' [-copy] [-keep] [-preserve] [-warn] packagename ..."; exit 1
fi

while : ; do
case "$1" in
-copy) WARN=true; PRESERVE=true; shift;;
-keep) KEEP=true; shift;;
-preserve) PRESERVE=true; shift;;
-warn) WARN=true; shift;;
-*) echo "Usage: 'basename $0' [-copy] [-keep] [-preserve] [-warn] packagename ..."; exit 1;;
*) break
esac
done

if [ "$WARN" = "true" ] ; then
echo "Only warning... not actually removing any files."
if [ "$PRESERVE" = "true" ] ; then
echo "Package contents is copied to $PRES_DIR."
fi
echo "Here's what would be removed (and left behind) if you"
echo "removed the package(s):"
echo
else
if [ "$PRESERVE" = "true" ] ; then
echo "Package contents is copied to $PRES_DIR."
fi
fi

remove_packages $*

```

```

#!/bin/sh
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# ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
# Modified to handle either old 8.3 or new package-version-arch-build.tgz
# packages, Sat Nov 17 14:25:58 PST 2001 volkerdi
#
# Rewritten to clean out _all_ old packages of a given basename, not just
# the first one found, Thu Apr 4 01:01:05 PST 2002 volkerdi
#
# Added --install-new and --reinstall, Fri May 31 14:11:14 PDT 2002 volkerdi

usage() {
cat << EOF

```

```

Usage: upgradepkg newpackage [newpackage2 ... ]
       upgradepkg oldpackage%newpackage [oldpackage2%newpackage2 ... ]

```

Upgradepkg upgrades a Slackware .tgz package from an older version to a newer one. It does this by INSTALLING the new package onto the system, and then REMOVING any files from the old package that aren't in the new package. If the old and new packages have the same name, a single argument is all that is required. If the packages have different names, supply the name of the old package followed by a percent symbol (%), then the name of the new package. Do not add any extra whitespace between pairs of old/new package names.

Before upgrading a package, save any configuration files (such as in /etc) that you wish to keep. Sometimes these will be preserved, but it depends on the package structure. If you want to force new versions of the config files to be installed, remove the old ones manually prior to running upgradepkg.

To upgrade in a directory other than / (such as /mnt):

```
ROOT=/mnt upgradepkg package.tgz

EOF
}

# Make sure there's a proper temp directory:
TMP=/var/log/setup/tmp
# If the $TMP directory doesn't exist, create it:
if [ ! -d $TMP ]; then
  rm -rf $TMP # make sure it's not a symlink or something stupid
  mkdir $TMP
  chmod 700 $TMP # no need to leave it open
fi

# $ROOT defined?
if [ -d "$ROOT" ]; then
  export ROOT
fi

# --help or no args?
if [ "$1" = "" -o "$1" = "--help" -o "$1" = "-?" ]; then
  usage;
  exit 1;
fi

# Arg processing loop. These must come before any packages are listed.
while [ 0 ]; do
  if [ "$1" = "--no-paranoia" ]; then
    # Enable --no-paranoia mode. This is so not-recommended that we're
    # not even going to document it. ;) If a file used to be directly
    # managed and now is moved into place, using --no-paranoia will cause
    # it to improperly disappear. It does slightly speed things up, though.
    # Don't use it.
    NOT_PARANOID="true"
    shift 1
  elif [ "$1" = "--install-new" ]; then
    # Install packages that do not already have an installed version.
    # The usual default is to skip them.
    INSTALL_NEW="yes"
    shift 1
  elif [ "$1" = "--reinstall" ]; then
    # Reinstall packages even if the installed one is the same version.
    REINSTALL="true"
    shift 1
  elif [ "$1" = "--verbose" -o "$1" = "-v" ]; then
```

```

# We're adding a --verbose mode that doesn't filter removepkg as much
VERBOSE="verbose"
shift 1
else # no more args
    break;
fi
done # processing args

ERRCODE=0

# Main processing loop:
while [ ! "$1" = "" ]; do

# Figure out the names of the old and new packages:
OLD='echo $1 | cut -f 1 -d "%'
NEW='echo $1 | cut -f 2 -d "%'
INCOMINGDIR='dirname $NEW'
OLD='basename $OLD .tgz'
NEW='basename $NEW .tgz'

# Here's a function to figure out the package name from one of those
# new long filenames. We'll need this to double check the name of the
# old package.

package_name() {
    STRING='basename $1 .tgz'
    # Check for old style package name with one segment:
    if [ ""echo $STRING | cut -f 1 -d "-" = ""echo $STRING | cut -f 2 -d "-" ]; then
        echo $STRING
    else # has more than one dash delimited segment
        # Count number of segments:
        INDEX=1
        while [ ! ""echo $STRING | cut -f $INDEX -d "-" = "" ]; do
            INDEX='expr $INDEX + 1'
        done
        INDEX='expr $INDEX - 1' # don't include the null value
        # If we don't have four segments, return the old-style (or out of spec) package name:
        if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
            echo $STRING
        else # we have four or more segments, so we'll consider this a new-style name:
            NAME='expr $INDEX - 3'
            NAME=""echo $STRING | cut -f 1-$NAME -d "-"
            echo $NAME
            # cruft for later ;)
            #VER='expr $INDEX - 2'
            #VER=""echo $STRING | cut -f $VER -d "-"
            #ARCH='expr $INDEX - 1'
            #ARCH=""echo $STRING | cut -f $ARCH -d "-"

```

```

    #BUILD="echo $STRING | cut -f $INDEX -d -"
  fi
fi
}

# Check and fix the old package name:
if [ ! -r $ROOT/var/log/packages/$OLD ]; then
  SHORT="package_name $OLD"
  if ls $ROOT/var/log/packages/$SHORT* 1> /dev/null 2> /dev/null ; then
    for installed_package in $ROOT/var/log/packages/$SHORT* ; do
      if [ "package_name $installed_package" = "$SHORT" ]; then # found one
        OLD="basename $installed_package"
        break
      fi
    done
  fi
fi

```

```

# Test to see if both the old and new packages are where we expect them
# to be -- skip to the next package (or package pair) if anything's wrong:

```

```

if [ ! -r $ROOT/var/log/packages/$OLD ]; then
  if [ ! "$INSTALL_NEW" = "yes" ]; then
    echo
    echo "Error: there is no installed package named $OLD."
    echo "    (looking for $ROOT/var/log/packages/$OLD)"
    echo
    ERRCODE=1
  else # --install-new was given, so install the new package:
    cat << EOF

```

```

+=====
| Installing new package $INCOMINGDIR/$NEW.tgz
+=====

```

```

EOF
  installpkg $INCOMINGDIR/$NEW.tgz
fi
  shift 1
  continue;
elif [ ! -r "$INCOMINGDIR/$NEW.tgz" ]; then
  echo
  echo "Error: incoming package $INCOMINGDIR/$NEW.tgz not found."
  echo
  shift 1
  ERRCODE=1
  continue;
fi

```

```

# Unless --reinstall was given, compare the package names
# and skip any exact matches:
if [ ! "$REINSTALL" = "true" ]; then
if [ "$OLD" = "$NEW" ]; then
    cat << EOF

+=====
| Skipping package $NEW (already installed)
+=====

EOF
    shift 1
    continue;
fi
fi

# Showtime. Let's do the upgrade. First, we will rename all the
# installed packages with this basename to make them easy to remove later:

TIMESTAMP='date +%Y-%m-%d,%T'
SHORT="package_name $OLD"
for installed_package in $ROOT/var/log/packages/$SHORT* ; do
if [ "package_name $installed_package" = "$SHORT" ]; then
    mv $installed_package ${installed_package}-upgraded-$TIMESTAMP
fi
done
for installed_script in $ROOT/var/log/scripts/$SHORT* ; do
if [ "package_name $installed_script" = "$SHORT" ]; then
if [ -r $installed_script ]; then
    mv $installed_script ${installed_script}-upgraded-$TIMESTAMP
fi
fi
done

# Print a banner for the current upgrade:
cat << EOF

+=====
| Upgrading $OLD package using $INCOMINGDIR/$NEW.tgz
+=====

EOF

# Next, the new package is pre-installed:
if [ "$VERBOSE" = "verbose" ]; then
installpkg $INCOMINGDIR/$NEW.tgz
else

```

```

echo "Pre-installing package $NEW..."
installpkg $INCOMINGDIR/$NEW.tgz 1> /dev/null
fi

# Now, the leftovers from the old package(s) can go. Pretty simple, huh? :)
if [ -d "$ROOT" ]; then
  ( cd $ROOT/var/log/packages
  for rempkg in *-$TIMESTAMP ; do
    if [ "$VERBOSE" = "verbose" ]; then
      ROOT=$ROOT removepkg $rempkg
    else
      ROOT=$ROOT removepkg $rempkg | grep -v "Skipping\." | grep -v "Removing files:"
    fi
  done
  )
else
  ( cd /var/log/packages
  for rempkg in *-$TIMESTAMP ; do
    if [ "$VERBOSE" = "verbose" ]; then
      removepkg $rempkg
    else
      removepkg $rempkg | grep -v "Skipping\." | grep -v "Removing files:"
    fi
  done
  )
fi
echo

# Again! Again!
# Seriously, the reinstalling of a package can be crucial if any files
# shift location, so we should always reinstall as the final step:
if [ ! "$NOT_PARANOID" = "true" ]; then
  installpkg $INCOMINGDIR/$NEW.tgz
fi

echo "Package $OLD upgraded with new package $INCOMINGDIR/$NEW.tgz."
ERRCODE=0

# Process next parameter:
shift 1

done

echo
exit $ERRCODE
#!/bin/sh
# Copyright 2001 BSDi, Inc, Concord, CA. Written by volkerdi@slackware.com.
# All rights reserved.

```

```
#
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```

Written by John Gilmore and Jay Fenlason



## 2.266 POE 1.35

### 2.266.1 Available under license :

from POE.pm

# Copyrights and documentation are after \_\_END\_\_.

<snip>

=head1 AUTHORS & COPYRIGHT

POE is the combined effort of quite a lot of people. This is an incomplete list of some early contributors. A more complete list can be found in POE's change log.

=over 2

=item Ann Barcomb

Ann Barcomb is <kudra@domaintje.com>, aka C<kudra>. Ann contributed large portions of POE::Simple and the code that became the ReadWrite support in POE::Component::Server::TCP. Her ideas also inspired Client::TCP component, introduced in version 0.1702.

=item Artur Bergman

Artur Bergman is <sky@cpan.org>. He contributed many hours' work into POE and quite a lot of ideas. Years later, I decide he's right and actually implement them.

Artur is the author of Filter::HTTPD and Filter::Reference, as well as bits and pieces throughout POE. His feedback, testing, design and inspiration have been instrumental in making POE what it is today.

Artur is investing his time heavily into perl 5's iThreads and PONIE at the moment. This project has far-reaching implications for POE's future.

=item Jos Boumans

Jos Boumans is <kane@cpan.org>, aka C<kane>. Jos is a major driving force behind the POE::Simple movement and has helped inspire the POE::Components for TCP clients and servers.

=item Matt Cashner

Matt Cashner is <sungo@pobox.com>, aka C<sungo>. Matt is one of POE's core developers. He's spearheaded the movement to simplify POE for new users, flattening the learning curve and making the system more accessible to everyone. He uses the system in mission critical applications, folding feedback and features back into the distribution for everyone's enjoyment.

=item Andrew Chen

Andrew Chen is <achen-poe@micropixel.com>. Andrew is the resident POE/Windows guru. He contributes much needed testing for Solaris on the SPARC and Windows on various Intel platforms.

=item Douglas Couch

Douglas Couch is <dscouch@purdue.edu>. Douglas helped port and maintain POE for Windows early on.

=item Jeffrey Goff

Jeffrey Goff is <jgoff@blackboard.com>. Jeffrey is the author of several POE modules, including a tokenizing filter and a component for managing user information, PoCo::UserBase. He's also co-author of "A Beginner's Introduction to POE" at [www.perl.com](http://www.perl.com).

=item Philip Gwyn

Philip Gwyn is <gwynp@artware.qc.ca>. He extended the Wheels I/O abstraction to support hot-swappable filters, and he eventually convinced Rocco that unique session and kernel IDs were a good thing.

Philip also enhanced L<POE::Filter::Reference|POE::Filter::Reference> to support different serialization methods. He has also improved POE's quality by finding and fixing several bugs. He provided POE a much needed code review around version 0.06.

Lately, Philip tracked down the race condition in signal handling and fixed it with the signal pipe.

=item Arnar M. Hrafnkelsson

Arnar is <addi@umich.edu>. Addi tested POE and L<POE::Component::IRC|POE::Component::IRC> on Windows, finding bugs and testing fixes. He appears throughout the Changes file. He has also written "cpoe", which is a POE-like library for C.

=item Dave Paris

Dave Paris is <dparis@w3works.com>. Dave tested and benchmarked POE around version 0.05, discovering some subtle (and not so subtle) timing problems. The pre-forking server sample was his idea. Versions 0.06 and later scaled to higher loads because of his work. He has contributed a lot of testing and feedback, much of which is tagged in the Changes file as a-mused. The man is scarily good at testing and troubleshooting.

=item Dieter Pearcey

Dieter Pearcey is <dieter@bullfrog.perlhacker.org>. He goes by several Japanese nicknames. Dieter's current area of expertise is in Wheels and Filters. He greatly improved L<POE::Wheel::FollowTail|POE::Wheel::FollowTail>, and his Filter contributions include the basic Block filter, as well as Stackable, RecordBlock, Grep and Map.

=item Plixer International

Plixer International is at L<http://plixer.com/>. Their sponsorship has helped POE 1.300 and beyond be significantly more robust using iThreads, especially when using fork() in Windows.

=item Robert Seifer

Robert Seifer is <e-mail unknown>. He rotates IRC nicknames regularly.

Robert contributed entirely too much time, both his own and his computers, towards the detection and eradication of a memory corruption bug that POE tickled in earlier Perl versions. In the end, his work produced a simple compile-time hack that worked around a problem relating to anonymous subs, scope and @{} processing.

=item Matt Sergeant

Matt contributed C<POE::Kernel::Poll>, a more efficient way to watch multiple files than select(). It's since been moved to L<POE::Loop::IO\_Poll|POE::Loop::IO\_Poll>.

=item Richard Soderberg

Richard Soderberg is <poe@crystalflame.net>, aka C<coral>. Richard is a collaborator on several side projects involving POE. His work provides valuable testing and feedback from a user's point of view.

=item Dennis Taylor

Dennis Taylor is <dennis@funkplanet.com>. Dennis has been testing,

debugging and patching bits here and there, such as Filter::Line which he improved by leaps in 0.1102. He's also the author of L<POE::Component::IRC|POE::Component::IRC>, the widely popular POE-based successor to his wildly popular L<Net::IRC|Net::IRC> library.

=item David Davis

David Davis, aka Xantus is <xantus@cpan.org>. David contributed patches to the HTTPD filter, and added CALLER\_STATE to L<POE::Session|POE::Session>. He is the author of L<Sprocket>, a networking framework built on POE.

=item Others?

Please contact the author if you've been forgotten and would like to be included here.

Z<TODO - This section has fallen into disrepair. A POE historian needs to cull the CHANGES for the names of major contributors.>

=back

=head2 Author

=over 2

=item Rocco Caputo

Rocco Caputo is <rcaputo@cpan.org>. POE is his brainchild. He wishes to thank you for your interest, and he has more thanks than he can count for all the people who have contributed. POE would not be nearly as cool without you.

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=back

Thank you for reading!

=cut

```
# rocco // vim: ts=2 sw=2 expandtab
# TODO - Edit.
from /mylib/svn-log.perl
```

```
#!/usr/bin/env perl

# This program is Copyright 2005 by Rocco Caputo. All rights are
# reserved. This program is free software. It may be modified, used,
# and redistributed under the same terms as Perl itself.

# Generate a nice looking change log from the subversion logs for a
# Perl project. The log is also easy for machines to parse.

<snip>
from META.yml

---
abstract: 'Portable, event-loop agnostic eventy networking and multitasking.'
author:
  - 'Rocco Caputo <rcaputo@cpan.org>'
build_requires:
  POE::Test::Loops: 1.350
configure_requires:
  Module::Build: 0.36
  POE::Test::Loops: 1.350
generated_by: 'Module::Build version 0.3607'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: POE
no_index:
  directory:
    - mylib
    - t
provides:
  POE:
    file: lib/POE.pm
    version: 1.350
  POE::Component:
    file: lib/POE/Component.pm
    version: 1.350
  POE::Component::Client::TCP:
    file: lib/POE/Component/Client/TCP.pm
    version: 1.350
  POE::Component::Server::TCP:
    file: lib/POE/Component/Server/TCP.pm
    version: 1.350
  POE::Driver:
    file: lib/POE/Driver.pm
    version: 1.350
```

POE::Driver::SysRW:  
file: lib/POE/Driver/SysRW.pm  
version: 1.350

POE::Filter:  
file: lib/POE/Filter.pm  
version: 1.350

POE::Filter::Block:  
file: lib/POE/Filter/Block.pm  
version: 1.350

POE::Filter::Grep:  
file: lib/POE/Filter/Grep.pm  
version: 1.350

POE::Filter::HTTPD:  
file: lib/POE/Filter/HTTPD.pm  
version: 1.350

POE::Filter::Line:  
file: lib/POE/Filter/Line.pm  
version: 1.350

POE::Filter::Map:  
file: lib/POE/Filter/Map.pm  
version: 1.350

POE::Filter::RecordBlock:  
file: lib/POE/Filter/RecordBlock.pm  
version: 1.350

POE::Filter::Reference:  
file: lib/POE/Filter/Reference.pm  
version: 1.350

POE::Filter::Stackable:  
file: lib/POE/Filter/Stackable.pm  
version: 1.350

POE::Filter::Stream:  
file: lib/POE/Filter/Stream.pm  
version: 1.350

POE::Kernel:  
file: lib/POE/Kernel.pm  
version: 1.350

POE::Loop:  
file: lib/POE/Loop.pm  
version: 1.350

POE::Loop::IO\_Poll:  
file: lib/POE/Loop/IO\_Poll.pm  
version: 1.350

POE::Loop::PerlSignals:  
file: lib/POE/Loop/PerlSignals.pm  
version: 1.350

POE::Loop::Select:  
file: lib/POE/Loop/Select.pm  
version: 1.350

POE::NFA:  
file: lib/POE/NFA.pm  
version: 1.350

POE::Pipe:  
file: lib/POE/Pipe.pm  
version: 1.350

POE::Pipe::OneWay:  
file: lib/POE/Pipe/OneWay.pm  
version: 1.350

POE::Pipe::TwoWay:  
file: lib/POE/Pipe/TwoWay.pm  
version: 1.350

POE::Queue:  
file: lib/POE/Queue.pm  
version: 1.350

POE::Queue::Array:  
file: lib/POE/Queue/Array.pm  
version: 1.350

POE::Resource:  
file: lib/POE/Resource.pm  
version: 1.350

POE::Resource::Aliases:  
file: lib/POE/Resource/Aliases.pm  
version: 1.350

POE::Resource::Events:  
file: lib/POE/Resource/Events.pm  
version: 1.350

POE::Resource::Extrefs:  
file: lib/POE/Resource/Extrefs.pm  
version: 1.350

POE::Resource::FileHandles:  
file: lib/POE/Resource/FileHandles.pm  
version: 1.350

POE::Resource::SIDs:  
file: lib/POE/Resource/SIDs.pm  
version: 1.350

POE::Resource::Sessions:  
file: lib/POE/Resource/Sessions.pm  
version: 1.350

POE::Resource::Signals:  
file: lib/POE/Resource/Signals.pm  
version: 1.350

POE::Resources:  
file: lib/POE/Resources.pm  
version: 1.350

POE::Session:  
file: lib/POE/Session.pm  
version: 1.350

POE::Wheel:  
file: lib/POE/Wheel.pm  
version: 1.350

POE::Wheel::Curses:  
file: lib/POE/Wheel/Curses.pm  
version: 1.350

POE::Wheel::FollowTail:  
file: lib/POE/Wheel/FollowTail.pm  
version: 1.350

POE::Wheel::ListenAccept:  
file: lib/POE/Wheel/ListenAccept.pm  
version: 1.350

POE::Wheel::ReadLine:  
file: lib/POE/Wheel/ReadLine.pm  
version: 1.350

POE::Wheel::ReadLine::Keymap:  
file: lib/POE/Wheel/ReadLine.pm

POE::Wheel::ReadWrite:  
file: lib/POE/Wheel/ReadWrite.pm  
version: 1.350

POE::Wheel::Run:  
file: lib/POE/Wheel/Run.pm  
version: 1.350

POE::Wheel::SocketFactory:  
file: lib/POE/Wheel/SocketFactory.pm  
version: 1.350

requires:

- Carp: 0
- Errno: 1.09
- Exporter: 0
- File::Spec: 0.87
- IO: 1.24
- IO::Handle: 1.27
- IO::Tty: 1.08
- POE::Test::Loops: 1.350
- POSIX: 1.02
- Socket: 1.7
- Storable: 2.16
- Test::Harness: 2.26
- Time::HiRes: 1.59

resources:

- homepage: <http://poe.perl.org/>
- license: <http://dev.perl.org/licenses/>
- repository: <https://github.com/rcaputo/poe>

version: 1.350

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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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```

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necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
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!

## 2.267 POE-Test-Loops 1.35

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```
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```

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## 2.268 POE-XS-Queue-Array 0.0060

### 2.268.1 Available under license :

from Array.pm

<snip>

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=head1 AUTHOR

Tony Cook <tonyc@cpan.org>

=cut

From META.yml

```
--- #YAML:1.0
name:      POE-XS-Queue-Array
version:   0.006
abstract:  XS version of POE::Queue::Array
license:   perl
author:
  - Tony Cook <tonyc@cpan.org>
generated_by: ExtUtils::MakeMaker version 6.42
distribution_type: module
requires:
  POE:      0.29
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.3.html
  version:  1.3
```

From README

<snip>

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

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```
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program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.269 portmap 6.0

### 2.269.1 Available under license :

```
/*_
```

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```
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.\n SUCH DAMAGE.
.\n
.\n  from: @(#)portmap.8 5.3 (Berkeley) 3/16/91
.\n $Id: portmap.8,v 1.2 2004/04/03 09:30:21 herbert Exp $
.\n
```

## 2.270 procps 3.2.8

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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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## 2.271 psmisc 22.6

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## 2.273 pyparsing 2.0.1

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## 2.276 Return-Value 1.666001

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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!

# 2.277 rpm 4.2.1

## 2.277.1 Available under license :

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Version 2, June 1991

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## 2.279 rsync 3.0.9

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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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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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## 2.281 Safe 2.33

### 2.281.1 Available under license :

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## 2.282 Scalar-List-Utills 1.22

### 2.282.1 Available under license :

From README

This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

```
perl Makefile.PL
make
make test
make install
```

#### KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are  $\geq 1 << 31$ . This will show up as tests 8 and 9 of dualvar.t failing

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.283 Schedule-Cron 0.99

## 2.283.1 Available under license :

from /lib/Schedule/Cron.pm

<snip>

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=head1 AUTHOR

... roland

=cut

1;

From META.yml

---

name: Schedule-Cron

version: 0.99

author:

- Roland Huss (roland@cpan.org)

abstract: cron-like scheduler for Perl subroutines

license: perl

resources:

license: <http://dev.perl.org/licenses/>

build\_requires:

Test: 0

Test::More: 0

requires:

Data::Dumper: 0

Time::ParseDate: 99.00

recommends:

Module::Build: 0

ioctl.ph: 0

sys::ioctl.ph: 0

configure\_requires:

Module::Build: 0.34  
provides:  
Schedule::Cron:  
  file: lib/Schedule/Cron.pm  
  version: 0.99  
generated\_by: Module::Build version 0.34  
meta-spec:  
  url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
  version: 1.4  
From README

<snip>

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```

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## 2.284 scrub 2.2

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```

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```
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```

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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 2.286 Set-Crontab 1.02

### 2.286.1 Available under license :

From Crontab.pm

```
<snip>
```

```
=head1 AUTHOR
```

```
Abhijit Menon-Sen <ams@toroid.org>
```

```
Copyright 2001 Abhijit Menon-Sen <ams@toroid.org>
```

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From README

<snip>

#### AUTHOR

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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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## 2.287 Set-Infinite 0.63

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```
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```

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

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
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!

## 2.288 Set-Scalar 1.26

### 2.288.1 Available under license :

from lib/Set/Scalar.pm

=head1 AUTHOR

Jarkko Hietaniemi <jhi@iki.fi>

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=cut

1;

From META.yml

---

abstract: unknown

author:

- 'Jarkko Hietaniemi <jhi@iki.fi>'

build\_requires:

ExtUtils::MakeMaker: 0

configure\_requires:

ExtUtils::MakeMaker: 0

dynamic\_config: 1

generated\_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120630'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Set-Scalar

no\_index:

directory:

- t

- inc

requires: {}

version: 1.26

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```
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program 'Gnomovision' (a program to direct compilers to make passes
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!

## 2.289 shadow 4.1.4.2

## 2.289.1 Available under license :

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## 2.290 sharutils 4.6.3

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## 2.292 smtpclient 1.0.0

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SMTPclient -- simple SMTP client

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Socket6.pm and Socket6.xs are based on perl5.005\_55-v6-19990721 written by KAME Project.

gai.h, getaddrinfo.c and getnameinfo.c are based on

ssh-1.2.27-IPv6-1.5 written by KIKUCHI Takahiro  
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# 2.296 Sort-Versions 1.5

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## 2.297 sshfs-fuse 2.2

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Copyright (C) <year> <name of author>

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 2.298 Storable 2.21

### 2.298.1 Available under license :

from /t/forgive.t

=====

```
#!/perl
#
# Copyright (c) 1995-2000, Raphael Manfredi
#
# You may redistribute only under the same terms as Perl 5, as specified
# in the README file that comes with the distribution.
#
# Original Author: Ulrich Pfeifer
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#
```

from README

=====

Storable 2.14

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-----  
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-----  
+=====

- | Storable is distributed as a module, but is also part of the official
- | Perl core distribution, as of perl 5.8.
- | Maintenance is now done by the perl5-porters. We thank Raphael
- | Manfredi for providing us with this very useful module.

+=====

The Storable extension brings persistency to your data.

You may recursively store to disk any data structure, no matter how  
complex and circular it is, provided it contains only SCALAR, ARRAY,  
HASH (possibly tied) and references (possibly blessed) to those items.

At a later stage, or in another program, you may retrieve data from  
the stored file and recreate the same hierarchy in memory. If you  
had blessed references, the retrieved references are blessed into  
the same package, so you must make sure you have access to the  
same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring  
of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and  
retrieval is performed, and/or what deep cloning should do on those  
objects.

To compile this extension, run:

```
perl Makefile.PL [PERL_SRC=...where you put perl sources...]  
make  
make install
```

There is an embeded POD manual page in Storable.pm.

Storable was written by Raphael Manfredi <Raphael\_Manfredi@pobox.com>  
Maitainance is now done by the perl5-porters <perl5-porters@perl.org>

Please e-mail us with problems, bug fixes, comments and complaints,  
although if you have complements you should send them to Raphael.  
Please don't e-mail Raphael with problems, as he no longer works on  
Storable, and your message will be delayed while he forwards it to us.

-----  
Thanks to (in chronological order):

Jarkko Hietaniemi <jhi@iki.fi>  
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Benjamin A. Holzman <bah@ecnavantage.com>  
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Marc Lehmann <pcg@opengroup.org>  
Justin Banks <justinb@wamnet.com>  
Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)

for their contributions.

A Japanese translation of this man page is available at the Japanized  
Perl Resources Project <<https://sourceforge.jp/projects/perldocjp/>>.

-----  
The perl5-porters would like to thank

Raphael Manfredi <Raphael\_Manfredi@pobox.com>

According to the perl5.8 Changes file, the following people have helped  
bring you this Storable release:

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Radu Greab <radu@netsoft.ro>  
Tim Bunce <Tim.Bunce@pobox.com>  
VMSperlers  
Yitzchak Scott-Thoennes <sthoenna@efn.org>

If I've missed you out, please accept my apologies, and e-mail your patch to perl5-porters@perl.org.

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Version 1, February 1989

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```

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```

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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```

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

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The End

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## 2.300 stunnel 4.56

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jloup@gzip.org      madler@alumni.caltech.edu

## 2.303 Sys-Syslog 0.32

## 2.303.1 Available under license :

---

abstract: 'Perl interface to the UNIX syslog(3) calls'

author:

- 'Sebastien Aperghis-Tramoni <sebastien@aperghis.net>'

build\_requires:

ExtUtils::MakeMaker: 0

configure\_requires:

ExtUtils::MakeMaker: 0

dynamic\_config: 1

generated\_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Sys-Syslog

no\_index:

directory:

- t

- inc

requires:

Carp: 0

Fcntl: 0

File::Basename: 0

File::Spec: 0

POSIX: 0

Socket: 0

Test::More: 0

XSLoader: 0

resources:

repository: <https://github.com/maddingue/Sys-Syslog.git>

version: 0.32

NAME

Sys::Syslog - Perl interface to the UNIX syslog(3) calls

### DESCRIPTION

Sys::Syslog is an interface to the UNIX syslog(3) program.

Call `syslog()` with a string priority and a list of `printf()` args just like `syslog(3)`.

### INSTALLATION

To install this module, run the following commands:

```
$ perl Makefile.PL
$ make
$ make test
$ make install
```

An ANSI-compliant compiler is required to compile the extension.

Sys::Syslog should work on any Perl since 5.6.0. This module is regularly compiled and tested by the CPAN Testers on various combinations of Perl and operating systems.

See also the corresponding CPAN Testers page:

<http://testers.cpan.org/show/Sys-Syslog.html>

## SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

```
perldoc Sys::Syslog
```

You can also look for information at:

Search CPAN

<http://search.cpan.org/dist/Sys-Syslog/>

MetaCPAN

<https://metacpan.org/module/Sys::Syslog>

CPAN Request Tracker:

<http://rt.cpan.org/NoAuth/Bugs.html?Dist=Sys-Syslog>

AnnoCPAN, annotated CPAN documentation:

<http://annocpan.org/dist/Sys-Syslog>

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<http://cpanratings.perl.org/d/Sys-Syslog>

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from Syslog.pm

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## 2.305 syslogd 1.5

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## 2.308 sysvinit 2.86

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```

```
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Version 3, 29 June 2007

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## 2.312 Task-Weaken 1.03

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## 2.315 telnet-OpenBSD 2.0020321E7

### 2.315.1 Available under license :

```

.\" $OpenBSD: telnet.1,v 1.28 2001/06/23 22:14:27 hin Exp $
.\" $NetBSD: telnet.1,v 1.5 1996/02/28 21:04:12 thorpej Exp $
.\"
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.\"  
.\" from: @(#)telnet.1 8.4 (Berkeley) 2/3/94  
.\"  
.Dd February 3, 1994  
.Dt TELNET 1  
.Os  
.Sh NAME  
.Nm telnet  
.Nd user interface to the  
.Tn TELNET  
protocol  
.Sh SYNOPSIS  
.Nm telnet  
.Op Fl 8EFKLacdfrx  
.Op Fl X Ar authtype  
.Op Fl b Ar hostalias  
.Op Fl e Ar escapechar  
.Op Fl k Ar realm  
.Op Fl l Ar user  
.Op Fl n Ar tracefile  
.Oo  
.Ar host  
.Op Ar port  
.Oc  
.Sh DESCRIPTION  
The  
.Nm  
command  
is used to communicate with another host using the  
.Tn TELNET  
protocol.

If

.Nm

is invoked without the

.Ar host

argument, it enters command mode,

indicated by its prompt

.Pq Nm telnet\&> .

In this mode, it accepts and executes the commands listed below.

If it is invoked with arguments, it performs an

.Ic open

command with those arguments.

.Pp

The options are as follows:

.Bl -tag -width Ds

.It Fl 8

Specifies an 8-bit data path.

This causes an attempt to negotiate the

.Dv TELNET BINARY

option on both input and output.

.It Fl E

Stops any character from being recognized as an escape character.

.It Fl F

If Kerberos 5 authentication is being used, the

.Fl F

option allows the local credentials to be forwarded

to the remote system, including any credentials that

have already been forwarded into the local environment.

.It Fl K

Specifies no automatic login to the remote system.

.It Fl L

Specifies an 8-bit data path on output.

This causes the BINARY option to be negotiated on output.

.It Fl X Ar atype

Disables the

.Ar atype

type of authentication.

.It Fl a

Attempt automatic login.

Currently, this sends the user name via the

.Ev USER

variable

of the

.Ev ENVIRON

option if supported by the remote system.

The name used is that of the current user as returned by

.Xr getlogin 2

if it agrees with the current user ID,

otherwise it is the name associated with the user ID.

.It Fl b Ar hostalias

Uses

.Xr bind 2

on the local socket to bind it to an aliased address (see

.Xr ifconfig 8

and the "alias" specifier) or to the address of

another interface than the one naturally chosen by

.Xr connect 2 .

This can be useful when connecting to services which use IP addresses

for authentication and reconfiguration of the server is undesirable (or

impossible).

.It Fl c

Disables the reading of the user's

.Pa \&.telnetrc

file.

(See the

.Ic toggle skiprc

command on this man page.)

.It Fl d

Sets the initial value of the

.Ic debug

toggle to

.Dv TRUE .

.It Fl e Ar escapechar

Sets the initial

.Nm

escape character to

.Ar escapechar Ns .

If

.Ar escapechar

is omitted, then

there will be no escape character.

.It Fl f

If Kerberos 5 authentication is being used, the

.Fl f

option allows the local credentials to be forwarded to the remote system.

.It Fl k Ar realm

If Kerberos authentication is being used, the

.Fl k

option requests that

.Nm

obtain tickets for the remote host in

realm

.Ar realm

instead of the remote host's realm, as determined

by

.Xr krb\_realmofhost 3 .

.It Fl l Ar user

When connecting to the remote system, if the remote system understands the .Ev ENVIRON option, then .Ar user will be sent to the remote system as the value for the variable USER. This option implies the .Fl a option. This option may also be used with the .Ic open command. .It Fl n Ar tracefile Opens .Ar tracefile for recording trace information. See the .Ic set tracefile command below. .It Fl r Specifies a user interface similar to .Xr rlogin 1 . In this mode, the escape character is set to the tilde (~) character, unless modified by the .Fl e option. .It Fl x Turns on encryption of the data stream if Kerberos is used. .It Ar host Indicates the official name, an alias, or the Internet address of a remote host. .It Ar port Indicates a port number (address of an application). If a number is not specified, the default .Nm port is used. .El .Pp When in rlogin mode, a line of the form ~. disconnects from the remote host; ~ is the telnet escape character. Similarly, the line ~^Z suspends the telnet session. The line ~^] escapes to the normal telnet escape prompt. .Pp Once a connection has been opened, .Nm will attempt to enable the

.Dv TELNET LINEMODE

option.

If this fails,

.Nm

will revert to one of two input modes:

either "character at a time"

or "old line by line"

depending on what the remote system supports.

.Pp

When

.Dv LINEMODE

is enabled, character processing is done on the local system, under the control of the remote system.

When input

editing or character echoing is to be disabled, the remote system will relay that information.

The remote system will also relay

changes to any special characters that happen on the remote system, so that they can take effect on the local system.

.Pp

In "character at a time" mode, most

text typed is immediately sent to the remote host for processing.

.Pp

In "old line by line" mode, all text is echoed locally,

and (normally) only completed lines are sent to the remote host.

The "local echo character" (initially "^E") may be used

to turn off and on the local echo

(this would mostly be used to enter passwords without the password being echoed).

.Pp

If the

.Dv LINEMODE

option is enabled, or if the

.Ic localchars

toggle is

.Dv TRUE

(the default for "old line by line"; see below),

the user's

.Ic quit ,

.Ic intr ,

and

.Ic flush

characters are trapped locally, and sent as

.Tn TELNET

protocol sequences to the remote side.

If

.Dv LINEMODE

has ever been enabled, then the user's

.Ic susp  
and  
.Ic eof  
are also sent as  
.Tn TELNET  
protocol sequences,  
and  
.Ic quit  
is sent as a  
.Dv TELNET ABORT  
instead of  
.Dv BREAK .  
There are options (see  
.Ic toggle  
.Ic autoflush  
and  
.Ic toggle  
.Ic autosynch  
below)  
which cause this action to flush subsequent output to the terminal  
(until the remote host acknowledges the  
.Tn TELNET  
sequence) and flush previous terminal input  
(in the case of  
.Ic quit  
and  
.Ic intr ) .  
.Pp  
While connected to a remote host,  
.Nm  
command mode may be entered by typing the  
.Nm  
"escape character" (initially "^]").  
When in command mode, the normal terminal editing conventions are available.  
Note that the escape character will return to the command mode of the initial  
invocation of  
.Nm  
that has the controlling terminal.  
Use the  
.Cm send escape  
command to switch to command mode in subsequent  
.Nm  
processes on remote hosts.  
.Pp  
The following  
.Nm  
commands are available.  
Only enough of each command to uniquely identify it need be typed

(this is also true for arguments to the

.Ic mode ,

.Ic set ,

.Ic toggle ,

.Ic unset ,

.Ic slc ,

.Ic environ ,

and

.Ic display

commands).

.Bl -tag -width "mode type"

.It Ic auth Ar argument Op Ar ...

The

.Ic auth

command manipulates the information sent through the

.Dv TELNET AUTHENTICATE

option.

Valid arguments for the

.Ic auth

command are as follows:

.Bl -tag -width "disable type"

.It Ic disable Ar type

Disables the specified

.Ar type

of authentication.

To obtain a list of available types, use the

.Ic auth disable \&?

command.

.It Ic enable Ar type

Enables the specified

.Ar type

of authentication.

To obtain a list of available types, use the

.Ic auth enable \&?

command.

.It Ic status

Lists the current status of the various types of

authentication.

.El

.It Ic close

Close a

.Tn TELNET

session and return to command mode.

.It Ic display Ar argument Op Ar ...

Displays all, or some, of the

.Ic set

and

.Ic toggle

values (see below).

.It Ic encrypt Ar argument Op Ar ...

The

.Ic encrypt

command manipulates the information sent through the

.Dv TELNET ENCRYPT

option that's available when Kerberos is used.

.Pp

Valid arguments for the encrypt command are as follows:

.Bl -tag -width Ar

.It Ic disable Ar type Ic [input|output]

Disables the specified

.Ar type

of encryption.

If you omit

.Ic input

and

.Ic output ,

both input and output

are disabled.

To obtain a list of available types, use the

.Ic encrypt disable \&?

command.

.It Ic enable Ar type Ic [input|output]

Enables the specified

.Ar type

of encryption.

If you omit

.Ic input

and

.Ic output ,

both input and output are

enabled.

To obtain a list of available types, use the

.Ic encrypt enable \&?

command.

.It Ic input

This is the same as the

.Ic encrypt start input

command.

.It Ic -input

This is the same as the

.Ic encrypt stop input

command.

.It Ic output

This is the same as the

.Ic encrypt start output

command.



`.It Ic -output`  
This is the same as the  
`.Ic encrypt stop output`  
command.

`.It Ic start Ic [input|output]`  
Attempts to start encryption.  
If you omit  
`.Ic input`  
and  
`.Ic output ,`  
both input and output are enabled.  
To obtain a list of available types, use the  
`.Ic encrypt enable \&?`  
command.

`.It Ic status`  
Lists the current status of encryption.

`.It Ic stop Ic [input|output]`  
Stops encryption.  
If you omit  
`.Ic input`  
and  
`.Ic output ,`  
encryption is on both input and output.

`.It Ic type Ar type`  
Sets the default type of encryption to be used  
with later  
`.Ic encrypt start`  
or  
`.Ic encrypt stop`  
commands.

`.El`

`.It Ic environ Ar arguments Op Ar ...`  
The  
`.Ic environ`  
command is used to manipulate the  
variables that may be sent through the  
`.Dv TELNET ENVIRON`  
option.  
The initial set of variables is taken from the users  
environment, with only the  
`.Ev DISPLAY`  
and  
`.Ev PRINTER`  
variables being exported by default.  
The  
`.Ev USER`  
variable is also exported if the  
`.Fl a`

or  
.F1 l  
options are used.  
.br  
Valid arguments for the  
.Ic environ  
command are:  
.B1 -tag -width F1  
.It Ic define Ar variable value  
Define the variable  
.Ar variable  
to have a value of  
.Ar value .  
Any variables defined by this command are automatically exported.  
The  
.Ar value  
may be enclosed in single or double quotes so  
that tabs and spaces may be included.  
.It Ic undefine Ar variable  
Remove  
.Ar variable  
from the list of environment variables.  
.It Ic export Ar variable  
Mark the variable  
.Ar variable  
to be exported to the remote side.  
.It Ic unexport Ar variable  
Mark the variable  
.Ar variable  
to not be exported unless  
explicitly asked for by the remote side.  
.It Ic list  
List the current set of environment variables.  
Those marked with a  
.Cm \*  
will be sent automatically,  
other variables will only be sent if explicitly requested.  
.It Ic \&?  
Prints out help information for the  
.Ic environ  
command.  
.El  
.It Ic logout  
Sends the  
.Dv TELNET LOGOUT  
option to the remote side.  
This command is similar to a  
.Ic close

command; however, if the remote side does not support the

.Dv LOGOUT

option, nothing happens.

If, however, the remote side does support the

.Dv LOGOUT

option, this command should cause the remote side to close the

.Tn TELNET

connection.

If the remote side also supports the concept of

suspending a user's session for later reattachment,

the logout argument indicates that you

should terminate the session immediately.

.It Ic mode Ar type

.Ar type

is one of several options, depending on the state of the

.Tn TELNET

session.

The remote host is asked for permission to go into the requested mode.

If the remote host is capable of entering that mode, the requested

mode will be entered.

.Bl -tag -width Ar

.It Ic character

Disable the

.Dv TELNET LINEMODE

option, or, if the remote side does not understand the

.Dv LINEMODE

option, then enter "character at a time" mode.

.It Ic line

Enable the

.Dv TELNET LINEMODE

option, or, if the remote side does not understand the

.Dv LINEMODE

option, then attempt to enter "old-line-by-line" mode.

.It Ic isig Pq Ic \-isig

Attempt to enable (disable) the

.Dv TRAPSIG

mode of the

.Dv LINEMODE

option.

This requires that the

.Dv LINEMODE

option be enabled.

.It Ic edit Pq Ic \-edit

Attempt to enable (disable) the

.Dv EDIT

mode of the

.Dv LINEMODE

option.

This requires that the  
.Dv LINEMODE  
option be enabled.  
.It Ic softtabs Pq Ic \-softtabs  
Attempt to enable (disable) the  
.Dv SOFT\_TAB  
mode of the  
.Dv LINEMODE  
option.  
This requires that the  
.Dv LINEMODE  
option be enabled.  
.It Ic litecho Pq Ic \-litecho  
Attempt to enable (disable) the  
.Dv LIT\_ECHO  
mode of the  
.Dv LINEMODE  
option.  
This requires that the  
.Dv LINEMODE  
option be enabled.  
.It Ic \&?  
Prints out help information for the  
.Ic mode  
command.  
.El  
.It Xo  
.Ic open Ar host  
.Op Fl l Ar user  
.Oo Op Fl  
.Ar port Oc  
.Xc  
Open a connection to the named host.  
If no port number  
is specified,  
.Nm  
will attempt to contact a  
.Tn TELNET  
server at the default port.  
The host specification may be either a host name (see  
.Xr hosts 5 )  
or an Internet address specified in the "dot notation" (see  
.Xr inet 3 ) .  
The  
.Fl l  
option may be used to specify the user name  
to be passed to the remote system via the  
.Ev ENVIRON

option.

When connecting to a non-standard port,

.Nm

omits any automatic initiation of

.Tn TELNET

options.

When the port number is preceded by a minus sign,  
the initial option negotiation is done.

After establishing a connection, the file

.Pa \&.telnetrc

in the

user's home directory is opened.

Lines beginning with a "#" are  
comment lines.

Blank lines are ignored.

Lines that begin

without whitespace are the start of a machine entry.

The first thing on the line is the name of the machine that is  
being connected to.

The rest of the line, and successive  
lines that begin with whitespace are assumed to be

.Nm

commands and are processed as if they had been typed  
in manually to the

.Nm

command prompt.

.It Ic quit

Close any open

.Tn TELNET

session and exit

.Nm telnet .

An end-of-file (in command mode) will also close a session and exit.

.It Ic send Ar arguments

Sends one or more special character sequences to the remote host.

The following are the arguments which may be specified  
(more than one argument may be specified at a time):

.Bl -tag -width escape

.It Ic abort

Sends the

.Dv TELNET ABORT

(Abort  
processes)

sequence.

.It Ic ao

Sends the

.Dv TELNET AO

(Abort Output) sequence, which should cause the remote system to flush  
all output

.Em from  
the remote system

.Em to  
the user's terminal.

.It Ic ayt  
Sends the  
.Dv TELNET AYT  
(Are You There)  
sequence, to which the remote system may or may not choose to respond.

.It Ic brk  
Sends the  
.Dv TELNET BRK  
(Break) sequence, which may have significance to the remote  
system.

.It Ic ec  
Sends the  
.Dv TELNET EC  
(Erase Character)  
sequence, which should cause the remote system to erase the last character  
entered.

.It Ic el  
Sends the  
.Dv TELNET EL  
(Erase Line)  
sequence, which should cause the remote system to erase the line currently  
being entered.

.It Ic eof  
Sends the  
.Dv TELNET EOF  
(End Of File)  
sequence.

.It Ic eor  
Sends the  
.Dv TELNET EOR  
(End of Record)  
sequence.

.It Ic escape  
Sends the current  
.Nm  
escape character (initially "^").

.It Ic ga  
Sends the  
.Dv TELNET GA  
(Go Ahead)  
sequence, which likely has no significance to the remote system.

.It Ic getstatus  
If the remote side supports the  
.Dv TELNET STATUS

command,  
.Ic getstatus  
will send the subnegotiation to request that the server send  
its current option status.  
.It Ic ip  
Sends the  
.Dv TELNET IP  
(Interrupt Process) sequence, which should cause the remote  
system to abort the currently running process.  
.It Ic nop  
Sends the  
.Dv TELNET NOP  
(No Operation)  
sequence.  
.It Ic susp  
Sends the  
.Dv TELNET SUSP  
(SUSPend process)  
sequence.  
.It Ic synch  
Sends the  
.Dv TELNET SYNCH  
sequence.  
This sequence causes the remote system to discard all previously typed  
(but not yet read) input.  
This sequence is sent as  
.Tn TCP  
urgent  
data (and may not work if the remote system is a  
.Bx 4.2  
system -- if  
it doesn't work, a lower case "r" may be echoed on the terminal).  
.It Ic do Ar cmd  
Sends the  
.Dv TELNET DO  
.Ar cmd  
sequence.  
.Ar cmd  
can be either a decimal number between 0 and 255,  
or a symbolic name for a specific  
.Dv TELNET  
command.  
.Ar cmd  
can also be either  
.Ic help  
or  
.Ic \&?  
to print out help information, including

a list of known symbolic names.

.It Ic dont Ar cmd

Sends the

.Dv TELNET DONT

.Ar cmd

sequence.

.Ar cmd

can be either a decimal number between 0 and 255,

or a symbolic name for a specific

.Dv TELNET

command.

.Ar cmd

can also be either

.Ic help

or

.Ic \&?

to print out help information, including

a list of known symbolic names.

.It Ic will Ar cmd

Sends the

.Dv TELNET WILL

.Ar cmd

sequence.

.Ar cmd

can be either a decimal number between 0 and 255,

or a symbolic name for a specific

.Dv TELNET

command.

.Ar cmd

can also be either

.Ic help

or

.Ic \&?

to print out help information, including

a list of known symbolic names.

.It Ic wont Ar cmd

Sends the

.Dv TELNET WONT

.Ar cmd

sequence.

.Ar cmd

can be either a decimal number between 0 and 255,

or a symbolic name for a specific

.Dv TELNET

command.

.Ar cmd

can also be either

.Ic help



or  
.Ic \&?  
to print out help information, including  
a list of known symbolic names.  
.It Ic \&?  
Prints out help information for the  
.Ic send  
command.  
.El  
.It Ic set Ar argument value  
.It Ic unset Ar argument value  
The  
.Ic set  
command will set any one of a number of  
.Nm  
variables to a specific value or to  
.Dv TRUE .  
The special value  
.Ic off  
turns off the function associated with  
the variable; this is equivalent to using the  
.Ic unset  
command.  
The  
.Ic unset  
command will disable or set to  
.Dv FALSE  
any of the specified functions.  
The values of variables may be interrogated with the  
.Ic display  
command.  
The variables which may be set or unset, but not toggled, are  
listed here.  
In addition, any of the variables for the  
.Ic toggle  
command may be explicitly set or unset using  
the  
.Ic set  
and  
.Ic unset  
commands.  
.Bl -tag -width escape  
.It Ic ayt  
If  
.Tn TELNET  
is in  
.Ic localchars  
mode, or

.Dv LINEMODE

is enabled, and the status character is typed, a

.Dv TELNET AYT

sequence (see

.Ic send ayt

preceding) is sent to the

remote host.

The initial value for the "Are You There"

character is the terminal's status character.

.It Ic echo

This is the value (initially "^E") which, when in

"line by line" mode, toggles between doing local echoing

of entered characters (for normal processing), and suppressing

echoing of entered characters (for entering, say, a password).

.It Ic eof

If

.Nm

is operating in

.Dv LINEMODE

or "old line by line" mode, entering this character

as the first character on a line will cause this character to be

sent to the remote system.

The initial value of the

.Ic eof

character is taken to be the terminal's

.Ic eof

character.

.It Ic erase

If

.Nm

is in

.Ic localchars

mode (see

.Ic toggle

.Ic localchars

below),

and if

.Nm

is operating in "character at a time" mode, then when this

character is typed, a

.Dv TELNET EC

sequence (see

.Ic send

.Ic ec

above)

is sent to the remote system.

The initial value for the

.Ic erase

character is taken to be  
the terminal's  
.Ic erase  
character.  
.It Ic escape  
This is the  
.Nm  
escape character (initially "^[") which causes entry  
into  
.Nm  
command mode (when connected to a remote system).  
.It Ic flushoutput  
If  
.Nm  
is in  
.Ic localchars  
mode (see  
.Ic toggle  
.Ic localchars  
below)  
and the  
.Ic flushoutput  
character is typed, a  
.Dv TELNET AO  
sequence (see  
.Ic send  
.Ic ao  
above)  
is sent to the remote host.  
The initial value for the  
.Ic flush  
character is taken to be  
the terminal's  
.Ic flush  
character.  
.It Ic forw1  
.It Ic forw2  
If  
.Tn TELNET  
is operating in  
.Dv LINEMODE ,  
these are the  
characters that, when typed, cause partial lines to be  
forwarded to the remote system.  
The initial value for  
the forwarding characters are taken from the terminal's  
eol and eol2 characters.  
.It Ic interrupt

If  
.Nm  
is in  
.Ic localchars  
mode (see  
.Ic toggle  
.Ic localchars  
below)  
and the  
.Ic interrupt  
character is typed, a  
.Dv TELNET IP  
sequence (see  
.Ic send  
.Ic ip  
above)  
is sent to the remote host.  
The initial value for the  
.Ic interrupt  
character is taken to be  
the terminal's  
.Ic intr  
character.  
.It Ic kill  
If  
.Nm  
is in  
.Ic localchars  
mode (see  
.Ic toggle  
.Ic localchars  
below),  
and if  
.Nm  
is operating in "character at a time" mode, then when this  
character is typed, a  
.Dv TELNET EL  
sequence (see  
.Ic send  
.Ic el  
above)  
is sent to the remote system.  
The initial value for the  
.Ic kill  
character is taken to be  
the terminal's  
.Ic kill  
character.

.It Ic lnext  
If  
.Nm  
is operating in  
.Dv LINEMODE  
or "old line by line" mode, then this character is taken to  
be the terminal's  
.Ic lnext  
character.  
The initial value for the  
.Ic lnext  
character is taken to be  
the terminal's  
.Ic lnext  
character.  
.It Ic quit  
If  
.Nm  
is in  
.Ic localchars  
mode (see  
.Ic toggle  
.Ic localchars  
below)  
and the  
.Ic quit  
character is typed, a  
.Dv TELNET BRK  
sequence (see  
.Ic send  
.Ic brk  
above)  
is sent to the remote host.  
The initial value for the  
.Ic quit  
character is taken to be  
the terminal's  
.Ic quit  
character.  
.It Ic reprint  
If  
.Nm  
is operating in  
.Dv LINEMODE  
or old line by line" mode, then this character is taken to  
be the terminal's  
.Ic reprint  
character.

The initial value for the  
.Ic reprint  
character is taken to be  
the terminal's  
.Ic reprint  
character.  
.It Ic rlogin  
This is the rlogin escape character.  
If set, the normal  
.Tn TELNET  
escape character is ignored unless it is  
preceded by this character at the beginning of a line.  
This character, at the beginning of a line, followed by  
a "." closes the connection; when followed by a ^Z it  
suspends the  
.Nm  
command.  
The initial state is to  
disable the  
.Ic rlogin  
escape character.  
.It Ic start  
If the  
.Dv TELNET TOGGLE-FLOW-CONTROL  
option has been enabled,  
then this character is taken to  
be the terminal's  
.Ic start  
character.  
The initial value for the  
.Ic start  
character is taken to be  
the terminal's  
.Ic start  
character.  
.It Ic stop  
If the  
.Dv TELNET TOGGLE-FLOW-CONTROL  
option has been enabled,  
then this character is taken to  
be the terminal's  
.Ic stop  
character.  
The initial value for the  
.Ic stop  
character is taken to be  
the terminal's  
.Ic stop

character.  
.It Ic susp  
If  
.Nm  
is in  
.Ic localchars  
mode, or  
.Dv LINEMODE  
is enabled, and the  
.Ic suspend  
character is typed, a  
.Dv TELNET SUSP  
sequence (see  
.Ic send  
.Ic susp  
above)  
is sent to the remote host.  
The initial value for the  
.Ic suspend  
character is taken to be  
the terminal's  
.Ic suspend  
character.  
.It Ic tracefile  
This is the file to which the output, caused by  
.Ic netdata  
or  
.Ic option  
tracing being  
.Dv TRUE ,  
will be written.  
If it is set to  
.Dq Fl ,  
then tracing information will be written to standard output (the default).  
.It Ic worderase  
If  
.Nm  
is operating in  
.Dv LINEMODE  
or "old line by line" mode, then this character is taken to  
be the terminal's  
.Ic worderase  
character.  
The initial value for the  
.Ic worderase  
character is taken to be  
the terminal's  
.Ic worderase

character.  
.It Ic \&?  
Displays the legal  
.Ic set  
.Pq Ic unset  
commands.  
.El  
.It Ic skey Ar sequence challenge  
The  
.Ic skey  
command computes a response to the S/Key challenge.  
See  
.Xr skey 1  
for more information on the S/Key system.  
.It Ic slc Ar state  
The  
.Ic slc  
command (Set Local Characters) is used to set  
or change the state of the special  
characters when the  
.Dv TELNET LINEMODE  
option has  
been enabled.  
Special characters are characters that get mapped to  
.Tn TELNET  
commands sequences (like  
.Ic ip  
or  
.Ic quit )  
or line editing characters (like  
.Ic erase  
and  
.Ic kill ) .  
By default, the local special characters are exported.  
.Bl -tag -width FI  
.It Ic check  
Verify the current settings for the current special characters.  
The remote side is requested to send all the current special  
character settings, and if there are any discrepancies with  
the local side, the local side will switch to the remote value.  
.It Ic export  
Switch to the local defaults for the special characters.  
The local default characters are those of the local terminal at  
the time when  
.Nm  
was started.  
.It Ic import  
Switch to the remote defaults for the special characters.



The remote default characters are those of the remote system at the time when the .Tn TELNET connection was established.

.It Ic \&?  
Prints out help information for the .Ic slc command.

.El  
.It Ic status  
Show the current status of .Nm telnet .

This includes the peer one is connected to, as well as the current mode.

.It Ic toggle Ar arguments Op Ar ...  
Toggle (between .Dv TRUE and .Dv FALSE ) various flags that control how .Nm responds to events.

These flags may be set explicitly to .Dv TRUE or .Dv FALSE using the .Ic set and .Ic unset commands listed above.

More than one argument may be specified.

The state of these flags may be interrogated with the .Ic display command.

Valid arguments are:

.Bl -tag -width Ar  
.It Ic authdebug  
Turns on debugging information for the authentication code.

.It Ic autoflush  
If .Ic autoflush and .Ic localchars are both .Dv TRUE , then when the .Ic ao

or  
.Ic quit  
characters are recognized (and transformed into  
.Tn TELNET  
sequences; see  
.Ic set  
above for details),  
.Nm  
refuses to display any data on the user's terminal  
until the remote system acknowledges (via a  
.Dv TELNET TIMING MARK  
option)  
that it has processed those  
.Tn TELNET  
sequences.  
The initial value for this toggle is  
.Dv TRUE  
if the terminal user had not  
done an "stty noflsh", otherwise  
.Dv FALSE  
(see  
.Xr stty 1 ).  
.It Ic autodecrypt  
When the  
.Dv TELNET ENCRYPT  
option is negotiated, by  
default the actual encryption (decryption) of the data  
stream does not start automatically.  
The  
.Ic autoencrypt  
.Pq Ic autodecrypt  
command states that encryption of the  
output (input) stream should be enabled as soon as  
possible.  
.Pp  
.It Ic autologin  
If the remote side supports the  
.Dv TELNET AUTHENTICATION  
option  
.Tn TELNET  
attempts to use it to perform automatic authentication.  
If the  
.Dv AUTHENTICATION  
option is not supported, the user's login  
name are propagated through the  
.Dv TELNET ENVIRON  
option.  
This command is the same as specifying

.Ar a  
option on the  
.Ic open  
command.  
.It Ic autosynch  
If  
.Ic autosynch  
and  
.Ic localchars  
are both  
.Dv TRUE ,  
then when either the  
.Ic intr  
or  
.Ic quit  
character is typed (see  
.Ic set  
above for descriptions of the  
.Ic intr  
and  
.Ic quit  
characters), the resulting  
.Tn TELNET  
sequence sent is followed by the  
.Dv TELNET SYNCH  
sequence.  
This procedure  
.Em should  
cause the remote system to begin throwing away all previously  
typed input until both of the  
.Tn TELNET  
sequences have been read and acted upon.  
The initial value of this toggle is  
.Dv FALSE .  
.It Ic binary  
Enable or disable the  
.Dv TELNET BINARY  
option on both input and output.  
.It Ic inbinary  
Enable or disable the  
.Dv TELNET BINARY  
option on input.  
.It Ic outbinary  
Enable or disable the  
.Dv TELNET BINARY  
option on output.  
.It Ic crlf  
If this is

.Dv TRUE ,  
then carriage returns will be sent as  
.Li <CR><LF> .  
If this is  
.Dv FALSE ,  
then carriage returns will be send as  
.Li <CR><NUL> .  
The initial value for this toggle is  
.Dv FALSE .  
.It Ic crmod  
Toggle carriage return mode.  
When this mode is enabled, most carriage return characters received from  
the remote host will be mapped into a carriage return followed by  
a line feed.  
This mode does not affect those characters typed by the user, only  
those received from the remote host.  
This mode is not very useful unless the remote host  
only sends carriage return, but never line feeds.  
The initial value for this toggle is  
.Dv FALSE .  
.It Ic debug  
Toggles socket level debugging (useful only to the superuser).  
The initial value for this toggle is  
.Dv FALSE .  
.It Ic encdebug  
Turns on debugging information for the encryption code.  
.It Ic localchars  
If this is  
.Dv TRUE ,  
then the  
.Ic flush ,  
.Ic interrupt ,  
.Ic quit ,  
.Ic erase ,  
and  
.Ic kill  
characters (see  
.Ic set  
above) are recognized locally, and transformed into (hopefully) appropriate  
.Tn TELNET  
control sequences  
(respectively  
.Ic ao ,  
.Ic ip ,  
.Ic brk ,  
.Ic ec ,  
and  
.Ic el ;

see

.Ic send

above).

The initial value for this toggle is

.Dv TRUE

in "old line by line" mode,

and

.Dv FALSE

in "character at a time" mode.

When the

.Dv LINEMODE

option is enabled, the value of

.Ic localchars

is ignored, and assumed to always be

.Dv TRUE .

If

.Dv LINEMODE

has ever been enabled, then

.Ic quit

is sent as

.Ic abort ,

and

.Ic eof

and

.Ic suspend

are sent as

.Ic eof

and

.Ic susp

(see

.Ic send

above).

.It Ic netdata

Toggles the display of all network data (in hexadecimal format).

The initial value for this toggle is

.Dv FALSE .

.It Ic options

Toggles the display of some internal

.Nm

protocol processing (having to do with

.Tn TELNET

options).

The initial value for this toggle is

.Dv FALSE .

.It Ic prettydump

When the

.Ic netdata

toggle is enabled, if

`.Ic prettydump`  
is enabled the output from the

`.Ic netdata`  
command will be formatted in a more user readable format.  
Spaces are put between each character in the output, and the  
beginning of any

`.Tn TELNET`  
escape sequence is preceded by a '\*' to aid in locating them.

`.It Ic skiprc`  
When the skiprc toggle is

`.Dv TRUE ,`

`.Tn TELNET`  
skips the reading of the

`.Pa \&.telnetrc`  
file in the user's home  
directory when connections are opened.  
The initial value for this toggle is

`.Dv FALSE .`

`.It Ic termdata`  
Toggles the display of all terminal data (in hexadecimal format).  
The initial value for this toggle is

`.Dv FALSE .`

`.It Ic verbose_encrypt`  
When the

`.Ic verbose_encrypt`  
toggle is

`.Dv TRUE ,`

`.Nm`  
prints out a message each time encryption is enabled or  
disabled.  
The initial value for this toggle is

`.Dv FALSE .`

`.It Ic \&?`  
Displays the legal

`.Ic toggle`  
commands.

`.El`

`.It Ic z`  
Suspend

`.Nm telnet .`  
This command only works when the user is using the

`.Xr csh 1 .`

`.It Ic \&! Op Ar command`  
Execute a single command in a subshell on the local  
system.

`If`

`.Ar command`  
is omitted, then an interactive

subshell is invoked.  
.It Ic \&? Op Ar command  
Get help.  
With no arguments,  
.Nm  
prints a help summary.  
If a command is specified,  
.Nm  
will print the help information for just that command.  
.El  
.Sh ENVIRONMENT  
.Nm  
uses at least the  
.Ev HOME ,  
.Ev SHELL ,  
.Ev DISPLAY ,  
and  
.Ev TERM  
environment variables.  
Other environment variables may be propagated  
to the other side via the  
.Dv TELNET ENVIRON  
option.  
.Sh FILES  
.Bl -tag -width ~/.telnetrc -compact  
.It Pa ~/.telnetrc  
user customized telnet startup values  
.El  
.Sh HISTORY  
The  
.Nm  
command appeared in  
.Bx 4.2 .  
.Sh NOTES  
On some remote systems, echo has to be turned off manually when in  
"old line by line" mode.  
.Pp  
In "old line by line" mode or  
.Dv LINEMODE  
the terminal's  
.Ic eof  
character is only recognized (and sent to the remote system)  
when it is the first character on a line.  
.Pp  
Source routing is not supported yet for IPv6.

# 2.316 Template-Toolkit 2.22

## 2.316.1 Available under license :

Template Toolkit

Version 2.22

21st July 2009

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modify it under the same terms as Perl itself.

### HACKER'S GUIDE

-----

Please hack on the Template Toolkit. It has been designed to be extensible and has literally dozens of programmer hooks that you can tap into to do all sorts of cool things. The object oriented architecture allows you to create your own subclassed modules to implement your own services, providers, filters, plugins, and so on.

The Template::Manual::Internals document gives a brief overview of the architecture. Unfortunately, it's not as complete as it could be, but the code is well documented and generally easy to follow. Don't be afraid to use the source, Luke.

The internals document also contains information about preparing and applying patches, updating the documentation and various other useful tips.

### AUTHOR

-----

The Template Toolkit was written by Andy Wardley <abw@wardley.org> with the invaluable assistance and contributions from many other people. See Template::Manual::Credits for details.

### COPYRIGHT

-----

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Template Toolkit

Version 2.22

21st July 2009

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## QUICK INSTALL

-----

If you have the CPAN module installed then you can install the Template Toolkit like this from the command line:

```
$ cpan Template
```

Otherwise you can install from source code. The latest version of the Template Toolkit can be retrieved from:

<http://www.cpan.org/modules/by-module/Template/>

Fetch and install AppConfig 1.56 if you don't already have it installed. Available from CPAN in:

[http://www.cpan.org/authors/Andy\\_Wardley/](http://www.cpan.org/authors/Andy_Wardley/)

To install the Template Toolkit from the command line:

```
$ tar zxf Template-Toolkit-2.22.tar.gz
$ cd Template-Toolkit-2.22
$ perl Makefile.PL
$ make
$ make test
$ make install
```

The Makefile.PL will prompt for any additional configuration options.

For further details, see the sections below on CONFIGURATION, BUILDING AND TESTING, and INSTALLATION. The Template Toolkit web site also has further information about installation.

<http://template-toolkit.org/download/index.html>

## PREREQUISITES

-----

The Template Toolkit is written entirely in Perl and should run on any platform on which Perl is available. It requires Perl 5.006 or later.

The 'tree' utility uses the AppConfig module (version 1.56 or above) for parsing command line options and configuration files. It is available from CPAN:

[http://www.cpan.org/authors/Andy\\_Wardley/](http://www.cpan.org/authors/Andy_Wardley/)

The Template Toolkit implements a "plugin" architecture which allow you to incorporate the functionality of virtually any Perl module into your templates. A number of plugin modules are included with the distribution for adding extra functionality or interfacing to external CPAN modules. You don't need to install any of these external modules unless you plan to use those particular plugins. See `Template::Plugins` and `Template::Manual::Plugins` for further details.

## OBTAINING AND INSTALLING THE TEMPLATE TOOLKIT

-----

The latest release version of the Template Toolkit can be downloaded from any CPAN site:

<http://www.cpan.org/modules/by-module/Template/>

Interim and development versions may also be available, along with other useful information, news, publications, mailing list archives, etc., from the Template Toolkit web site:

<http://template-toolkit.org/>

The Template Toolkit is distributed as a gzipped tar archive file:

Template-Toolkit-<version>.tar.gz

where <version> represents the current version number, e.g. 2.22.

To install the Template Toolkit, unpack the distribution archive to create an installation directory. Something like this:

```
$ tar zxf Template-Toolkit-2.22.tar.gz
```

or

```
$ gunzip Template-Toolkit-2.22.tar.gz
$ tar xf Template-Toolkit-2.22.tar
```

You can then 'cd' into the directory created,

```
$ cd Template-Toolkit-2.22
```

and perform the usual Perl installation procedure:

```
$ perl Makefile.PL
$ make
$ make test
$ make install # may need root access
```

The Makefile.PL performs various sanity checks and then prompts for a number of configuration items. The following CONFIGURATION section covers this in greater detail.

If you choose to install the optional components then you may need to perform some post-installation steps to ensure that the template libraries, HTML documentation and examples can be correctly viewed via your web browser. The INSTALLATION section covers this.

## INSTALLING ON MICROSOFT WIN32 PLATFORMS

-----

For advice on using Perl under Microsoft Windows, have a look here:

<http://win32.perl.org/>

If you're using Strawberry Perl then you can install the Template Toolkit using the CPAN module as described above.

If you're using ActivePerl then you can install it using the Perl Package Manager (ppm) with the pre-compiled packages built by Chris Winters. For further details, see:

<http://openinteract.sourceforge.net/>  
<http://activestate.com/>

If you prefer, you can manually install the Template Toolkit on Win32 systems by following the instructions in this installation guide. However, please note that you are likely to encounter problems using 'make' and should instead download and use 'nmake' as a replacement. This is available from Microsoft's ftp site.

ftp://ftp.microsoft.com/Softlib/MSLFILES/nmake15.exe

In this case, you should substitute 'nmake' for 'make' in all the instructions contained herein.

## CONFIGURATION

-----

This section covers the configuration of the Template Toolkit via the Makefile.PL program. If you've successfully run this and didn't have any problems answering any of the questions then you probably don't need to read this section.

The Makefile.PL Perl program performs the module configuration and generates the Makefile which can then be used to build, test and install the Template Toolkit.

```
$ perl Makefile.PL
```

The Template Toolkit now boasts a high-speed implementation of Template::Stash written in XS. You can choose to build this as an optional module for using explicitly as an alternative to the regular pure-perl stash module. In addition, you can opt to use the XS Stash as the default, typically making the Template Toolkit run twice as fast!

When prompted, answer 'y' or 'n' to build and optionally use the XS Stash module by default:

```
Do you want to build the XS Stash module? [y]
Do you want to use the XS Stash for all Templates? [n]
```

## BUILDING AND TESTING

-----

This section describes the "make" and "make test" commands which build and test the Template Toolkit. If you ran these without incident, then you can probably skip this section.

The 'make' command will build the Template Toolkit modules in the usual manner.

```
make
```

The 'make test' command runs the test scripts in the 't' subdirectory.

```
make test
```

You can set the TEST\_VERBOSE flag when running 'make test' to see the results of the individual tests:

```
make test TEST_VERBOSE=1
```

## INSTALLATION

-----

This section describes the final installation of the Template Toolkit via the "make install" and covers any additional steps you may need to take if you opted to build the HTML documentation and/or examples.

The 'make install' will install the modules and scripts on your system. You may need administrator privileges to perform this task. Alternately you can install the Template Toolkit to a local directory (see ExtUtils::MakeMaker for full details), e.g.

```
$ perl Makefile.PL PREFIX=/home/abw/
```

Don't forget to update your PERL5LIB environment variable if you do this, or add a line to your script to tell Perl where to find the files, e.g.

```
use lib qw( /home/abw/lib/perl5/site_perl/5.10.0 );
```

## AUTHOR

-----

The Template Toolkit was written by Andy Wardley <abw@wardley.org> with the invaluable assistance and contributions from many other people. See Template::Manual::Credits for details.

## COPYRIGHT

-----

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```
--- #YAML:1.0
```

```
name:      Template-Toolkit
version:   2.22
abstract:  comprehensive template processing system
```

author:  
- Andy Wardley <abw@wardley.org>  
license: perl  
distribution\_type: module  
configure\_requires:  
ExtUtils::MakeMaker: 0  
requires:  
AppConfig: 1.56  
File::Spec: 0.8  
File::Temp: 0.12  
Scalar::Util: 0  
no\_index:  
directory:  
- t  
- inc  
generated\_by: ExtUtils::MakeMaker version 6.48  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4

Template Toolkit

Version 2.22

21st July 2009

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modify it under the same terms as Perl itself.

## INSTALLATION

-----

If you have the CPAN module installed then you can install the Template Toolkit from the command line like so:

```
$ cpan Template
```

Please see the separate INSTALL file for further information on installing the Template Toolkit, including what to do if you don't have the CPAN module installed, and/or installation on MS Windows.

## DESCRIPTION

-----

The Template Toolkit is a collection of modules which implement a fast, flexible, powerful and extensible template processing system. It was originally designed and remains primarily useful for generating dynamic web content, but it can be used equally well for processing any other kind of text based documents: HTML, XML, POD, PostScript, LaTeX, and so on.

It can be used as a stand-alone Perl module or embedded within an Apache/mod\_perl server for generating highly configurable dynamic web content. A number of Perl scripts are also provided which can greatly simplify the process of creating and managing static web content and other offline document systems.

## WHAT'S NEW?

-----

Version 2.22 is mostly a bug fixing release. The XS Stash now works with utf8 data. Tests that were failing on Win32 platforms have been fixed. Pod coverage and quality tests have been disabled except for release testing. The Autoformat plugin has been moved into a separate distribution.

Version 2.21 featured a complete clean-out of all the old HTML documentation, examples, libraries and other cruft that was way out of date and badly unloved. A new version of the HTML documentation is available for download from [http://tt2.org/download/index.html#html\\_docs](http://tt2.org/download/index.html#html_docs). v2.21 also fixes a memory leak in the XS Stash.

Version 2.21 also adds the STRICT option which reports the use of undefined variable values. The ANYCASE option has been improved so that you can write things like 'data.last' without the 'last' bit being interpreted as the LAST keyword. The xml filter is also new, providing a slightly more rigorous version of the html filter for use in XML documents.

Version 2.20 fixed all known bugs. It also added the Scalar and Assert plugins. The HTML documentation, examples, libraries and other bits and pieces are still provided with the distribution, but are no longer installed by the Makefile.PL. If you want them (and very few people do, it seems), then you'll need to dig them out of the distribution by yourself (or uncomment the commented-out lines in Makefile.PL that handle the installation). This has been done in an effort to simplify the installation process. All of the HTML documentation is available online at <http://tt2.org/>

Version 2.19 fixed some minor bugs in both Perl and XS versions of the Template Stash, and fixed a problem with a test in the test suite failing under Win32. It also added the url filter as a version of what the uri filter used to do before we fixed it to do the right thing.

Version 2.18 fixes a number of minor bugs. It also includes a modification to the parser grammar so that you can write expressions as arguments to subroutine, method or vmethod calls.

Versions 2.17 and 2.16 were interim releases by Adam Kennedy who took care of some installation problems on Mac OSX while Andy was busy elsewhere.

Version 2.15 is a major maintenance release. It applies all outstanding patches and closes all open bugs listed on <http://rt.cpan.org/> It includes:

- \* XS Stash: enhancements include support for tied hashes/arrays and "fallback" methods on objects (e.g. accessing hash and list items and calling virtual methods)
- \* Virtual Methods: added the scalar.remove, scalar.substr, hash.delete, hash.items, hash.pairs, list.import and list.hash virtual methods. Added support for backreferences to scalar.replace and other improvements to list.push, list.unshift, list.hash, hash.list
- \* Plugins: Added Math plugin, Bug fixes and enhancements to File, Image, URL and String plugins. Moved DBI, XML and GD plugins into separate distributions.
- \* Numerous other bug fixes, enhancements, documentation updates, all described in detail in the Changes file.

More significant is what's not in version 2.15. The DBI plugin has been moved into a separate Template-DBI distribution, the GD plugins into Template-GD, the XML plugins into Template-XML, and the Latex filters into Template-Latex. This has been done in an effort to make the Template Toolkit core distribution smaller, cleaner and easier to configure and install.

Version 2.14 added Unicode support to TT, a full set of command line options for tpage, the 'caller' and 'callers' items to each template component, some enhancements to the XML::Simple plugin, and a number of minor bug fixes.

See the Changes file for further details of the changes in these and earlier releases.

## GENERAL FEATURES

-----

Some of the key features of the Template Toolkit are listed below.



See the documentation for further detail.

- \* simple but powerful template language
- \* promotes a clear separation between application functionality and presentation elements
- \* variable substitution allows binding to any Perl data types (scalars, hashes, lists, subs, objects)
- \* conditional blocks (IF/UNLESS/ELSIF/ELSE, SWITCH/CASE)
- \* loops and iterators (FOREACH, WHILE)
- \* file/template inclusion (INSERT, INCLUDE, PROCESS, WRAPPER)
- \* definition of local template components (BLOCK)
- \* post-processing filters (FILTER)
- \* plugin module architecture for easy extensibility (USE)
- \* embedded Perl can be optionally enabled (PERL/RAWPERL)
- \* full exception handling (TRY/THROW/CATCH/FINAL)
- \* user-defined macros (MACRO)
- \* definition of template metadata (META)
- \* virtual methods for complex data types (e.g. list.size, hash.keys, etc.)
- \* numerous configuration options
- \* modular OO architecture allows extensive customisation
- \* fast LALR(1) parser modules compiles templates according to a YACC-like grammar.
- \* templates compiled to Perl code for efficient runtime execution
- \* in-memory and on-disk caching of compiled templates
- \* simple front end module (Template.pm) for ease of use
- \* numerous plugin modules: CGI, DBI, XML, URL, Date, Table, etc
- \* standard filters for html, case folding, regex search and replace, etc.

## DOCUMENTATION

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The Template Toolkit is provided with enough documentation to keep all but the most voracious reader happy for quite some time.

The 'Changes' file in the distribution directory documents all visible changes between versions of the Template Toolkit. See the section 'VERSION COMPATABILITY' below for further details.

The 'TODO' file, also in the distribution directory, lists known bugs, planned enhancements and possible new features for future versions.

The 'INSTALL' file covers the configuration and installation process.

The rest of the documentation is distributed in Pod format. The Pod pages are installed when you 'make install' and can be viewed using 'perldoc', e.g.

```
perldoc Template
```

If you're using a Unix based system then the pages should also be converted to manpages during the 'make install'. Thus, you can also:

```
man Template
```

(the man pages shouldn't have any problems relating to older versions)

The documentation is also available in HTML format at the TT web site:

```
http://tt2.org/docs/
```

The documentation is now split into several sections. The 'Template' page is now much shorter, containing information relating to the specifics of using the Template module, and a brief summary of everything else. Information relating more generally to the Template Toolkit, features, syntax of the template language, plugins and so forth, has been split up into a number of Template::Manual::\* pages. Template::Manual provides the index for the manual.

```
perldoc Template::Manual
```

Individual sections can be viewed as, for example,

```
perldoc Template::Manual::Syntax  
perldoc Template::Manual::Directives
```

`perldoc Template::Manual::Plugins`

The `Template::Tutorial` provides an index to the tutorial documents. There are currently 2 tutorials, on generating web content, and on creating and using data files.

`perldoc Template::Tutorial`  
`perldoc Template::Tutorial::Web`  
`perldoc Template::Tutorial::Datafile`

Each of the various modules that comprise the Template Toolkit has its own associated documentation. The '`Template::Modules`' manpage lists these modules along with a brief description of their functions.

`perldoc Template::Modules`

See the individual pages for further detail:

`perldoc Template::Context`  
`perldoc Template::Parser`  
`perldoc Template::Provider`

If you're interested in the internals of the Template Toolkit and want to know more about how it all works, then you might like to have a look at the following:

`perldoc Template::Manual::Internals`

This document also contains important information for people wishing to hack on the Template Toolkit.

The final bit of good news is that there is now a FAQ for the Template Toolkit.

`perldoc Template::FAQ`

It's now got a few question in it, and better still, some answers! Further contributions welcome.

Most of the documentation is stable and reliable. Where it's not then it's usually marked as such. In particular, the documentation for the internals (`Template::Manual::Internals`) and FAQ (`Template::FAQ`) are perpetually under construction.

SUPPORT

-----

The Template Toolkit mailing list provides a forum for discussing issues relating to the use and abuse of the Template Toolkit. There are a number of knowledgeable and helpful individuals who frequent the list (including the author) who can often offer help or suggestions. Please respect their time and patience by checking the documentation and/or mailing list archives before asking questions that may already have been answered.

To subscribe to the mailing list, send an email to:

`templates-request@template-toolkit.org`

with the message 'subscribe' in the body. You can also use the web interface to subscribe or browse the archives:

<http://mail.template-toolkit.org/mailman/listinfo/templates>

A low-volume, moderated mailing list exists for announcements about new releases of the Template Toolkit and related products. To subscribe, send an email to:

`templates-announce-request@template-toolkit.org`

with the message 'subscribe' in the body. A web interface also exists for subscription and browsing the archives:

<http://mail.template-toolkit.org/mailman/listinfo/templates-announce>

For information about commercial support and consultancy for the Template Toolkit, please contact the author.

#### AUTHOR

-----

The Template Toolkit was written by Andy Wardley <[abw@wardley.org](mailto:abw@wardley.org)> with the invaluable assistance and contributions from many other people. See `Template::Manual::Credits` for details.

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```

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```
Gnomovision version 69, Copyright (C) 19xx 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.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.317 termcap-compat 1.2.3

## 2.317.1 Available under license :

This is the Debian GNU/Linux termcap-compat package,

This package was put together by Christian Hudon  
<chrish@debian.org> by combining the following packages:

<ftp://sunsite.unc.edu/pub/Linux/GCC/termcap-2.0.8.tar.gz>  
(for the libtermcap.so shared library)  
<http://www.ccil.org/~esr/terminfo/termtypes.tc.gz>  
(for the termcap database file, more information available  
on <http://www.ccil.org/~esr/ncurses.html>)

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As for the ncurses termcap database... (quoting from the termcap file itself)

```
# COPYRIGHTS AND OTHER DELUSIONS
#
# The BSD ancestor of this file had a standard Regents of the University of
# California copyright with dates from 1980 to 1993.
#
# Some information has been merged in from a terminfo file SCO distributes.
# It has an obnoxious boilerplate copyright which I'm ignoring because they
# took so much of the content from the ancestral BSD versions of this file
# and didn't attribute it, thereby violating the BSD Regents' copyright.
#
# Not that anyone should care. However many valid functions copyrights may
# serve, putting one on a termcap/terminfo file with hundreds of anonymous
# contributors makes about as much sense as copyrighting a wall-full of
# graffiti -- it's legally dubious, ethically bogus, and patently ridiculous.
#
# This file deliberately has no copyright. It belongs to no one and everyone.
# If you claim you own it, you will merely succeed in looking like a fool.
# Use it as you like. Use it at your own risk. Copy and redistribute freely.
# There are no guarantees anywhere. Svaha!
```

```
/* Declarations for termcap library.
```

```
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```

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Version 2, June 1991

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```
---
abstract: unknown
author:
- 'Fergal Daly <fergal@esatclear.ie>'
build_requires:
ExtUtils::MakeMaker: 0
configure_requires:
ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: unknown
meta-spec:
```

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: Test-Deep  
no\_index:  
directory:  
- t  
- inc  
requires:  
List::Util: 1.09  
Scalar::Util: 1.09  
Test::More: 0  
Test::NoWarnings: 0.02  
Test::Tester: 0.04  
version: 0.110  
from Deep.pm

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```

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## 2.320 Test-Fatal 0.0080

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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:

```
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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, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
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program 'Gnomovision' (a program to direct compilers to make passes  
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```



<signature of Ty Coon>, 1 April 1989

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The End

## 2.321 Test-NoWarnings 1.04

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Version 2.1, February 1999

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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!

## 2.322 Test-Simple 0.98

### 2.322.1 Available under license :

```
--- #YAML:1.0
name:      Test-Simple
version:   0.98
abstract:  Basic utilities for writing tests.
author:
  - Michael G Schwern <schwern@pobox.com>
license:   perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
build_requires:
  ExtUtils::MakeMaker: 0
requires:
  perl:      5.006
  Test::Harness: 2.03
resources:
  bugtracker: http://github.com/schwern/test-more/issues
  homepage:   http://test-more.googlecode.com
  license:    http://dev.perl.org/licenses/
  MailingList: http://groups.google.com/group/test-more-users
  repository: http://github.com/schwern/test-more/tree/master
no_index:
  directory:
    - t
    - inc
generated_by:  ExtUtils::MakeMaker version 6.57_06
meta-spec:
  url:  http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
  The "Artistic License"
```

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Version 1, February 1989

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```
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```

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```

```
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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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 a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.323 Test-Tester 0.108

### 2.323.1 Available under license :

The "Artistic License"

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The End

NAME

Test::Tester - Ease testing test modules built with Test::Builder

SYNOPSIS

```
use Test::Tester tests => 6;
```

```
use Test::MyStyle;
```

```
check_test(  
  sub {  
    is_mystyle_eq("this", "that", "not eq");  
  },  
  {  
    ok => 0, # expect this to fail  
    name => "not eq",  
    diag => "Expected: 'this'\nGot: 'that'",  
  }  
);
```

or

```
use Test::Tester;
```

```
use Test::More tests => 3;
```

```
use Test::MyStyle;
```

```
my ($premat, @results) = run_tests(  
  sub {  
    is_database_alive("dbname");
```

```

    }
);

# now use Test::More::like to check the diagnostic output

like($results[0]->{diag}, "/^Database ping took \\d+ seconds$/, "diag");

```

## DESCRIPTION

If you have written a test module based on `Test::Builder` then `Test::Tester` allows you to test it with the minimum of effort.

## HOW TO USE (THE EASY WAY)

From version 0.08 `Test::Tester` no longer requires you to included anything special in your test modules. All you need to do is

```
use Test::Tester;
```

in your test script before any other `Test::Builder` based modules and away you go.

Other modules based on `Test::Builder` can be used to help with the testing. In fact you can even use functions from your module to test other functions from the same module (while this is possible it is probably not a good idea, if your module has bugs, then using it to test itself may give the wrong answers).

The easiest way to test is to do something like

```

check_test(
  sub { is_mystyle_eq("this", "that", "not eq") },
  {
    ok => 0, # we expect the test to fail
    name => "not eq",
    diag => "Expected: 'this'\nGot: 'that'",
  }
);

```

this will execute the `is_mystyle_eq` test, capturing it's results and checking that they are what was expected.

You may need to examine the test results in a more flexible way, for example, the diagnostic output may be quite long or complex or it may involve something that you cannot predict in advance like a timestamp. In this case you can get direct access to the test results:

```

my ($preature, @results) = run_tests(
  sub {
    is_database_alive("dbname");

```

```
}  
);  
  
like($result[0]->{diag}, "/^Database ping took \\d+ seconds$/", "diag");
```

We cannot predict how long the database ping will take so we use Test::More's like() test to check that the diagnostic string is of the right form.

## HOW TO USE (THE HARD WAY)

\*This is here for backwards compatibility only\*

Make your module use the Test::Tester::Capture object instead of the Test::Builder one. How to do this depends on your module but assuming that your module holds the Test::Builder object in \$Test and that all your test routines access it through \$Test then providing a function something like this

```
sub set_builder  
{  
  $Test = shift;  
}
```

should allow your test scripts to do

```
Test::YourModule::set_builder(Test::Tester->capture);
```

and after that any tests inside your module will be captured.

## TEST RESULTS

The result of each test is captured in a hash. These hashes are the same as the hashes returned by Test::Builder->details but with a couple of extra fields.

These fields are documented in Test::Builder in the details() function

ok

Did the test pass?

actual\_ok

Did the test really pass? That is, did the pass come from Test::Builder->ok() or did it pass because it was a TODO test?

name

The name supplied for the test.

type

What kind of test? Possibilities include, skip, todo etc. See

Test::Builder for more details.

reason

The reason for the skip, todo etc. See Test::Builder for more details.

These fields are exclusive to Test::Tester.

diag

Any diagnostics that were output for the test. This only includes diagnostics output after the test result is declared.

Note that Test::Builder ensures that any diagnostics end in a `\n` and it in earlier versions of Test::Tester it was essential that you have the final `\n` in your expected diagnostics. From version 0.10 onwards, Test::Tester will add the `\n` if you forgot it. It will not add a `\n` if you are expecting no diagnostics. See below for help tracking down hard to find space and tab related problems.

depth

This allows you to check that your test module is setting the correct value for `$Test::Builder::Level` and thus giving the correct file and line number when a test fails. It is calculated by looking at `caller()` and `$Test::Builder::Level`. It should count how many subroutines there are before jumping into the function you are testing. So for example in

```
run_tests( sub { my_test_function("a", "b") } );
```

the depth should be 1 and in

```
sub deeper { my_test_function("a", "b") }
```

```
run_tests(sub { deeper() });
```

depth should be 2, that is 1 for the `sub { }` and one for `deeper()`. This might seem a little complex but if your tests look like the simple examples in this doc then you don't need to worry as the depth will always be 1 and that's what Test::Tester expects by default.

Note: if you do not specify a value for depth in `check_test()` then it automatically compares it against 1, if you really want to skip the depth test then pass in `undef`.

Note: depth will not be correctly calculated for tests that run from a signal handler or an END block or anywhere else that hides the call stack.

Some of Test::Tester's functions return arrays of these hashes, just like Test::Builder->details. That is, the hash for the first test will be array element 1 (not 0). Element 0 will not be a hash it will be a string which

contains any diagnostic output that came before the first test. This should usually be empty, if it's not, it means something output diagnostics before any test results showed up.

## SPACES AND TABS

Appearances can be deceptive, especially when it comes to emptiness. If you are scratching your head trying to work out why Test::Tester is saying that your diagnostics are wrong when they look perfectly right then the answer is probably whitespace. From version 0.10 on, Test::Tester surrounds the expected and got diag values with single quotes to make it easier to spot trailing whitespace. So in this example

```
# Got diag (5 bytes):  
# 'abcd '  
# Expected diag (4 bytes):  
# 'abcd'
```

it is quite clear that there is a space at the end of the first string.

Another way to solve this problem is to use colour and inverse video on an ANSI terminal, see below COLOUR below if you want this.

Unfortunately this is sometimes not enough, neither colour nor quotes will help you with problems involving tabs, other non-printing characters and certain kinds of problems inherent in Unicode. To deal with this, you can switch Test::Tester into a mode whereby all "tricky" characters are shown as `\{xx}`. Tricky characters are those with ASCII code less than 33 or higher than 126. This makes the output more difficult to read but much easier to find subtle differences between strings. To turn on this mode either call `show_space()` in your test script or set the `TESTTESTERSPACE` environment variable to be a true value. The example above would then look like

```
# Got diag (5 bytes):  
# abcd\x{20}  
# Expected diag (4 bytes):  
# abcd
```

## COLOUR

If you prefer to use colour as a means of finding tricky whitespace characters then you can set the `TESTTESTCOLOUR` environment variable to a comma separated pair of colours, the first for the foreground, the second for the background. For example "white,red" will print white text on a red background. This requires the `Term::ANSIColor` module. You can specify any colour that would be acceptable to the `Term::ANSIColor::color` function.

If you spell colour differently, that's no problem. The `TESTTESTERCOLOR` variable also works (if both are set then the British spelling wins out).

## EXPORTED FUNCTIONS

`($premature, @results) = run_tests(\&test_sub)`

`\&test_sub` is a reference to a subroutine.

`run_tests` runs the subroutine in `$test_sub` and captures the results of any tests inside it. You can run more than 1 test inside this subroutine if you like.

`$premature` is a string containing any diagnostic output from before the first test.

`@results` is an array of test result hashes.

`cmp_result(\%result, \%expect, $name)`

`\%result` is a ref to a test result hash.

`\%expect` is a ref to a hash of expected values for the test result.

`cmp_result` compares the result with the expected values. If any differences are found it outputs diagnostics. You may leave out any field from the expected result and `cmp_result` will not do the comparison of that field.

`cmp_results(\@results, \@expects, $name)`

`\@results` is a ref to an array of test results.

`\@expects` is a ref to an array of hash refs.

`cmp_results` checks that the results match the expected results and if any differences are found it outputs diagnostics. It first checks that the number of elements in `\@results` and `\@expects` is the same. Then it goes through each result checking it against the expected result as in `cmp_result()` above.

`($premature, @results) = check_tests(\&test_sub, \@expects, $name)`

`\&test_sub` is a reference to a subroutine.

`\@expect` is a ref to an array of hash refs which are expected test results.

`check_tests` combines `run_tests` and `cmp_tests` into a single call. It also checks if the tests died at any stage.

It returns the same values as `run_tests`, so you can further examine the test results if you need to.

`($premature, @results) = check_test(\&test_sub, \%expect, $name)`

`\&test_sub` is a reference to a subroutine.

`\%expect` is a ref to a hash of expected values for the test result.

check\_test is a wrapper around check\_tests. It combines run\_tests and cmp\_tests into a single call, checking if the test died. It assumes that only a single test is run inside \&test\_sub and include a test to make sure this is true.

It returns the same values as run\_tests, so you can further examine the test results if you need to.

show\_space()

Turn on the escaping of characters as described in the SPACES AND TABS section.

## HOW IT WORKS

Normally, a test module (let's call it Test::MyStyle) calls Test::Builder->new to get the Test::Builder object. Test::MyStyle calls methods on this object to record information about test results. When Test::Tester is loaded, it replaces Test::Builder's new() method with one which returns a Test::Tester::Delegate object. Most of the time this object behaves as the real Test::Builder object. Any methods that are called are delegated to the real Test::Builder object so everything works perfectly. However once we go into test mode, the method calls are no longer passed to the real Test::Builder object, instead they go to the Test::Tester::Capture object. This object seems exactly like the real Test::Builder object, except, instead of outputting test results and diagnostics, it just records all the information for later analysis.

## SEE ALSO

Test::Builder the source of testing goodness. Test::Builder::Tester for an alternative approach to the problem tackled by Test::Tester - captures the strings output by Test::Builder. This means you cannot get separate access to the individual pieces of information and you must predict exactly what your test will output.

## AUTHOR

This module is copyright 2005 Fergal Daly <fergal@esatclear.ie>, some parts are based on other people's work.

Plan handling lifted from Test::More. written by Michael G Schwern <schwern@pobox.com>.

Test::Tester::Capture is a cut down and hacked up version of Test::Builder. Test::Builder was written by chromatic <chromatic@wgz.org> and Michael G Schwern <schwern@pobox.com>.

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# 2.324 texinfo 4.12

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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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```
<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.
```

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## 2.325 Text-CSV 1.16

### 2.325.1 Available under license :

```
--- #YAML:1.0
name:      Text-CSV
version:   1.16
abstract:  comma-separated values manipulator (using XS or PurePerl)
author:
  - Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>
license:   perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  IO::Handle: 0
  Test::Harness: 0
  Test::More: 0
no_index:
  directory:
    - t
    - inc
generated_by: ExtUtils::MakeMaker version 6.48
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4
Text::CSV version 1.16
```

=====

comma-separated values manipulator

#### INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

## DEPENDENCIES

Test::More

## DESCRIPTION

Text::CSV provides facilities for the composition and decomposition of comma-separated values. An instance of the Text::CSV class can combine fields into a CSV string and parse a CSV string into fields.

The module accepts either strings or files as input and can utilize any user-specified characters as delimiters, separators, and escapes so it is perhaps better called ASV (anything separated values) rather than just CSV.

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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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## 2.326 Text-Glob 0.09

### 2.326.1 Available under license :

```
---
abstract: 'match globbing patterns against text'
author:
- 'Richard Clamp <richardc@unixbeard.net>'
build_requires:
Test::More: 0
configure_requires:
Module::Build: 0.36
generated_by: 'Module::Build version 0.3603'
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Text-Glob
provides:
Text::Glob:
file: lib/Text/Glob.pm
version: 0.09
resources:
license: http://dev.perl.org/licenses/
version: 0.09
From Glob.pm
=====
```

=head1 AUTHOR

Richard Clamp <richardc@unixbeard.net>

=head1 COPYRIGHT

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This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

L<File::Glob>, glob(3)

=cut

From META.yml

---

abstract: 'match globbing patterns against text'

author:

- 'Richard Clamp <richardc@unixbeard.net>'

build\_requires:

Test::More: 0

configure\_requires:

Module::Build: 0.36

generated\_by: 'Module::Build version 0.3603'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Text-Glob

provides:

Text::Glob:

file: lib/Text/Glob.pm

version: 0.09

resources:

license: <http://dev.perl.org/licenses/>

version: 0.09

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```
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```

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```
Gnomovision version 69, Copyright (C) 19xx name of author
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under certain conditions; type `show c' for details.
```

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```
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program `Gnomovision' (a program to direct compilers to make passes
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!

## 2.327 Text-Unidecode 0.04

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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!



## 2.328 tftp-hpa 0.29

### 2.328.1 Available under license :

From tftp/main.c

```
/* $OpenBSD: main.c,v 1.4 1997/01/17 07:13:30 millert Exp $ */
/* $NetBSD: main.c,v 1.6 1995/05/21 16:54:10 mycroft Exp $ */

/*
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 */
```

<snip>

# 2.329 Tie-EncryptedHash 1.24

## 2.329.1 Available under license :

```
#!/usr/bin/perl -s
##
## Tie::EncryptedHash - A tied hash with encrypted fields.
##
## Copyright (c) 2000, Vipul Ved Prakash. All rights reserved.
## This code is based on Damian Conway's Tie::SecureHash.
##
## $Id: EncryptedHash.pm,v 1.8 2000/09/02 19:23:00 vipul Exp vipul $
## vi:expandtab=1;ts=4;
```

```
package Tie::EncryptedHash;
snip...
```

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##
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##
## $Id: assignopaque.t,v 1.1 2000/08/31 16:31:00 vipul Exp vipul $
```

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Version 1, February 1989

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

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## 2.330 time 1.7

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```

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```

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

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## 2.331 Time-modules 2006.0814

### 2.331.1 Available under license :

From the Time::Timezone man page

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## 2.332 TimeDate 1.2

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```
--- #YAML:1.0
name:      TimeDate
version:   1.20
abstract:  ~
author:
  - Graham Barr <gbarr@pobox.com>
license:   perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires: {}
resources:
  repository: http://github.com/gbarr/perl-TimeDate
no_index:
  directory:
    - t
    - inc
generated_by: ExtUtils::MakeMaker version 6.48
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
This is the perl5 TimeDate distribution. It requires perl version 5.003
or later
```

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a \*lot\* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time modules by David Muir on CPAN.

You install the library by running these commands:

```
perl Makefile.PL
make
make test
make install
```

Please report any bugs/suggestions to <gbarr@pobox.com>

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Graham <gbarr@pobox.com>

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Version 1, February 1989

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```
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Copyright (C) 19yy <name of author>
```

```
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any later version.
```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

That's all there is to it!

## 2.333 traceroute 2.0.19

### 2.333.1 Available under license :

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Version 2, June 1991

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Copyright (C) <year> <name of author>
```

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## 2.334 Try-Tiny 0.11

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L<<http://github.com/nothingmuch/try-tiny/>>

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## 2.335 ttylog 0.1.d

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ttylog - TTY logger

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## 2.336 tzcode 2013b

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*/
```

README for the tz distribution

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2009-05-17 by Arthur David Olson.

"What time is it?" -- Richard Deacon as The King  
"Any time you want it to be." -- Frank Baxter as The Scientist  
(from the Bell System film "About Time")

The 1989 update of the time zone package featured

- \* POSIXization (including interpretation of POSIX-style TZ environment variables, provided by Guy Harris),
- \* ANSIfication (including versions of "mktime" and "difftime"),
- \* SVIDulation (an "altzone" variable)
- \* MACHination (the "gtime" function)
- \* corrections to some time zone data (including corrections to the rules

for Great Britain and New Zealand)

- \* reference data from the United States Naval Observatory for folks who want to do additional time zones
- \* and the 1989 data for Saudi Arabia.

(Since this code will be treated as "part of the implementation" in some places and as "part of the application" in others, there's no good way to name functions, such as `timegm`, that are not part of the proposed ANSI C standard; such functions have kept their old, underscore-free names in this update.)

And the `"dysize"` function has disappeared; it was present to allow compilation of the `"date"` command on old BSD systems, and a version of `"date"` is now provided in the package. The `"date"` command is not created when you `"make all"` since it may lack options provided by the version distributed with your operating system, or may not interact with the system in the same way the native version does.

Since POSIX frowns on correct leap second handling, the default behavior of the `"zic"` command (in the absence of a `"-L"` option) has been changed to omit leap second information from its output files.

Here is a recipe for acquiring, building, installing, and testing the tz distribution on a GNU/Linux or similar host.

```
mkdir tz
cd tz
wget --retr-symlinks 'ftp://ftp.iana.org/tz/tz*-latest.tar.gz'
gzip -dc tzcode-latest.tar.gz | tar -xf -
gzip -dc tzdata-latest.tar.gz | tar -xf -
```

Be sure to read the comments in `"Makefile"` and make any changes needed to make things right for your system, especially if you are using some platform other than GNU/Linux. Then run the following commands, substituting your desired installation directory for `"$HOME/tzdir"`:

```
make TOPDIR=$HOME/tzdir install
$HOME/tzdir/etc/zdump -v America/Los_Angeles
```

To use the new functions, use a `"-ltz"` option when compiling or linking.

Historical local time information has been included here to:

- \* provide a compendium of data about the history of civil time that is useful even if the data are not 100% accurate;
- \* give an idea of the variety of local time rules that have existed in the past and thus an idea of the variety that may be expected in the future;

\* provide a test of the generality of the local time rule description system.

The information in the time zone data files is by no means authoritative; the files currently do not even attempt to cover all time stamps before 1970, and there are undoubtedly errors even for time stamps since 1970. If you know that the rules are different from those in a file, by all means feel free to change file (and please send the changed version to [tz@iana.org](mailto:tz@iana.org) for use in the future). Europeans take note!

Thanks to these Timezone Caballeros who've made major contributions to the time conversion package: Keith Bostic; Bob Devine; Paul Eggert; Robert Elz; Guy Harris; Mark Horton; John Mackin; and Bradley White. Thanks also to Michael Bloom, Art Neilson, Stephen Prince, John Sovereign, and Frank Wales for testing work, and to Gwillim Law for checking local mean time data. None of them are responsible for remaining errors.

Look in [<ftp://ftp.iana.org/tz/releases/>](ftp://ftp.iana.org/tz/releases/) for updated versions of these files.

Please send comments or information to [tz@iana.org](mailto:tz@iana.org).

Postscript: The README above is largely unmodified (aside from details of mailing list and ftp archive addresses) from that prepared many years ago by Arthur David Olson, to whom the timezone community owes the greatest debt of all. Arthur is not currently maintaining this data or code (though he remains involved).

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----- Outline -----

- Time and date functions
- Scope of the tz database
- Names of time zone rule files
- Time zone abbreviations
- Calendrical issues
- Time and time zones on Mars

----- Time and date functions -----

## 2.337 udev 124.0

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## 2.340 User-Utmp 1.8

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## 2.341 util-linux 2.24

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\*/

```
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```

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

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#
```

```
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```

## 2.342 vim 7.2

### 2.342.1 Available under license :

```
en_US
20040623 release.
```

--

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Thanks to both authors for there wonderful work.

=====

```
en_AU:
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which in turn was initially based on a subset of the
original English wordlist created by Kevin Atkinson for
Pspell and Aspell and thus is covered by his original
LGPL licence.
```

The credit for this en\_AU dictionary goes to:

Kelvin Eldridge (maintainer)  
Jean Hollis Weber  
David Wilson

- Words incorrect in Australian English removed
- a list from the previously removed words with corrected spelling was added
- a list of major rivers was added
- a list of place names was added
- a list of Australian mammals was added

- a list of Aboriginal/Koori words commonly used was added

A total of 119,267 words are now recognized by the dictionary.

Of course, special thanks go to the editors of the en\_GB dictionary (David Bartlett, Brian Kelk and Andrew Brown) which provided the starting point for this dictionary.

The affix file is currently a duplicate of the en\_AU.aff created completely from scratch by David Bartlett and Andrew Brown, based on the published rules for MySpell and is also provided under the LGPL.

If you find omissions or bugs or have new words to add to the dictionary, please contact the en\_AU maintainer at:

"Kelvin" <audictionary@onlineconnections.com.au>

=====  
en\_CA:

The dictionary file was created using the "final" English and Canadian SCOWL (Spell Checker Oriented Word Lists) wordlists available at Kevin's Word Lists Page (<http://wordlist.sourceforge.net>). Lists with the suffixes 10, 20, 35, 50, 65 and 65 were used. Lists with the suffixes 70, 80 and 95 were excluded. Copyright information for SCOWL and the wordlists used in creating it is reproduced below.

The affix file is identical to the MySpell English (United States) affix file. It is a heavily modified version of the original english.aff file which was released as part of Geoff Kuenning's Ispell and as such is covered by his BSD license.

---

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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3449 Martha Ct.  
Arcata, CA 95521-4884

grady@netcom.com  
grady@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100  
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English  
> Wordlist With Frequency Classification" word list as it seems to  
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called



PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

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The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files from the Census report is a government document which I don't think can be copyrighted.

The name list from Alan Beale is also derived from the linux words list, which is derived from the DEC list. He also added a bunch of miscellaneous names to the list, which he released to the Public Domain.

The DEC Word list doesn't have a formal name. It is labeled as "FILE: english.words; VERSION: DEC-SRC-92-04-05" and was put together by Jorge Stolfi <stolfi@src.dec.com> DEC Systems Research Center. The DEC Word list has the following copyright statement:

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However since this Word List is used in the linux.words package which the author claims is free of any copyright I assume it is OK to use for most purposes. If you want to use this in a commercial project and this concerns you the information from the DEC word list can easily be removed without much sacrifice in quality as only the name lists were used.

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The 60 level includes Brian's frequency class 0 and all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package. A large number of names are also included: The 4,946 female names and 3,897 male names from the MWords package and the files "computer.names", "misc.names", and "org.names" from the DEC package.

The 65 level includes words found in the Ispell "medium" word list. The Ispell word lists are under the same copyright of Ispell itself which is:

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The 70 level includes the 74,550 common dictionary words and the 21,986 names list from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

The ENABLE package, mainted by M\Cooper <thegrendel@theriver.com>, is in the Public Domain:

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distributed as widely as possible.

The 95 level includes the 354,984 single words and 256,772 compound  
words from the MWords package, ABLE.LST from the ENABLE Supplement,  
and some additional words found in my part-of-speech database that  
were not found anywhere else.

Accent information was taken from UKACD.

My VARCON package was used to create the American, British, and  
Canadian word list.

Since the original word lists used in the  
VARCON package came from the Ispell distribution they are under the  
Ispell copyright.

The variant word lists were created from a list of variants found in  
the 12dicts supplement package as well as a list of variants I created  
myself.

=====  
en\_GB:

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original English wordlist created by Kevin Atkinson for  
Pspell and Aspell and thus is covered by his original  
LGPL licence.

It has been extensively updated by David Bartlett, Brian Kelk  
and Andrew Brown:

- numerous Americanism have been removed
- numerous American spellings have been corrected
- missing words have been added
- many errors have been corrected
- compound hyphenated words have been added where appropriate

Valuable inputs to this process were received from many other people - far too numerous to name. Serious thanks to you all for your greatly appreciated help.

This word list is intended to be a good representation of current modern British English and thus it should be a good basis for Commonwealth English in most countries of the world outside North America.

The affix file has been created completely from scratch by David Bartlett and Andrew Brown, based on the published rules for MySpell and is also provided under the LGPL.

In creating the affix rules an attempt has been made to reproduce the most general rules for English word formation, rather than merely use it as a means to compress the size of the dictionary. It is hoped that this will facilitate future localisation to other variants of English.

Please let David Bartlett <dwb@openoffice.org> know of any errors that you find.

The current release is R 1.18, 11/04/05

=====  
en\_NZ:

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- 

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NZ English Dictionary v0.9 beta - Build 06SEP03

~~~~~  
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or

<http://www.girlza.com/dictionary/download.html>

for a final version, after a little while (no hurry).

This dictionary is based on the en\_GB Myspell dictionary which in turn was initially based on a subset of the original English wordlist created by Kevin Atkinson for Pspell and Aspell and thus is covered by his original LGPL licence.

Introduction

~~~~~

en\_NZ.dic has been altered to include New Zealand places, including major cities and towns, and major suburbs. It also contains NZ words, organisations and expressions.

en\_NZ.aff has had a few REPlace strings added, but is basically unchanged.

#### Acknowledgements

~~~~~

Thanks must go to the original creators of the British dictionary, David Bartlett, Brian Kelk and Andrew Brown.

I wouldn't have started this without seeing the Australian dictionary, thanks Kelvin Eldridge, Jean Hollis Weber and David Wilson.

And thank you to all who've contributed to OpenOffice.org.

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~~~~~

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#### Issues

~~~~~

Many of the proper nouns already in the dictionary do not have an affix for 's.

All my new words start after the z's of the original dictionary.

#### Contact

~~~~~

Contact Tristan Burtenshaw ([hooty@slingshot.co.nz](mailto:hooty@slingshot.co.nz)) with any words, places or other suggestions for the dictionary.

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```
/* vi:set ts=8 sts=4 sw=4:
```

```
*
```

```
* Handling of regular expressions: vim_regcomp(), vim_regexec(), vim_regsub()
```

```
*
```

```
* NOTICE:
```

```
*
```

```
* This is NOT the original regular expression code as written by Henry  
* Spencer. This code has been modified specifically for use with the VIM  
* editor, and should not be used separately from Vim. If you want a good  
* regular expression library, get the original code. The copyright notice  
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```

```
*
```

```
* END NOTICE
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```
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*
```

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- \* by explicit claim or by omission.
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- \* 3. Altered versions must be plainly marked as such, and must not
- \* be misrepresented as being the original software.
- \*
- \* Beware that some of this code is subtly aware of the way operator
- \* precedence is structured in regular expressions. Serious changes in
- \* regular-expression syntax might require a total rethink.
- \*
- \* Changes have been made by Tony Andrews, Olaf 'Rhialto' Seibert, Robert
- \* Webb, Ciaran McCreesh and Bram Moolenaar.
- \* Named character class support added by Walter Briscoe (1998 Jul 01)
- \*/

README.txt for version 7.2 of Vim: Vi IMproved.

## WHAT IS VIM

Vim is an almost compatible version of the UNIX editor Vi. Many new features have been added: multi-level undo, syntax highlighting, command line history, on-line help, spell checking, filename completion, block operations, etc. There is also a Graphical User Interface (GUI) available. See "runtime/doc/vi\_diff.txt" for differences with Vi.

This editor is very useful for editing programs and other plain ASCII files. All commands are given with normal keyboard characters, so those who can type with ten fingers can work very fast. Additionally, function keys can be defined by the user, and the mouse can be used.

Vim currently runs under Amiga DOS, MS-DOS, MS-Windows 95/98/Me/NT/2000/XP, Atari MiNT, Macintosh, BeOS, VMS, RISC OS, OS/2 and almost all flavours of UNIX. Porting to other systems should not be very difficult.

## DISTRIBUTION

There are separate distributions for Unix, PC, Amiga and some other systems. This README.txt file comes with the runtime archive. It includes the documentation, syntax files and other files that are used at runtime. To run Vim you must get either one of the binary archives or a source archive. Which one you need depends on the system you want to run it on and whether you want or must compile it yourself. Check "<http://www.vim.org/download.php>" for an overview of currently available distributions.

## DOCUMENTATION

The best is to use `":help"` in Vim. If you don't have an executable yet, read `"runtime/doc/help.txt"`. It contains pointers to the other documentation files. The User Manual reads like a book and is recommended to learn to use Vim. See `":help user-manual"`.

The vim tutor is a one hour training course for beginners. Mostly it can be started as `"vimtutor"`. See `":help tutor"` for more information.

## COPYING

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation to orphans in Uganda. Please read the file `"runtime/doc/uganda.txt"` for details (do `":help uganda"` inside Vim).

Summary of the license: There are no restrictions on using or distributing an unmodified copy of Vim. Parts of Vim may also be distributed, but the license text must always be included. For modified versions a few restrictions apply. The license is GPL compatible, you may compile Vim with GPL libraries and distribute it.

## SPONSORING

Fixing bugs and adding new features takes a lot of time and effort. To show your appreciation for the work and motivate Bram and others to continue working on Vim please send a donation.

Since Bram is back to a paid job the money will now be used to help children in Uganda. See `runtime/doc/uganda.txt`. But at the same time donations increase Bram's motivation to keep working on Vim!

For the most recent information about sponsoring look on the Vim web site:

<http://www.vim.org/sponsor/>

## COMPILING

If you obtained a binary distribution you don't need to compile Vim. If you obtained a source distribution, all the stuff for compiling Vim is in the `"src"` directory. See `src/INSTALL` for instructions.

## INSTALLATION

See one of these files for system-specific instructions:

README\_ami.txt Amiga  
README\_unix.txt Unix  
README\_dos.txt MS-DOS and MS-Windows  
README\_os2.txt OS/2  
README\_mac.txt Macintosh  
README\_vms.txt VMS

## INFORMATION

The latest news about Vim can be found on the Vim home page:

<http://www.vim.org/>

If you have problems, have a look at the Vim FAQ:

<http://vimdoc.sf.net/vimfaq.html>

Send bug reports to:

Bram Moolenaar <[Bram@vim.org](mailto:Bram@vim.org)>

There are five mailing lists for Vim:

<[vim@vim.org](mailto:vim@vim.org)>

For discussions about using existing versions of Vim: Useful mappings, questions, answers, where to get a specific version, etc.

<[vim-dev@vim.org](mailto:vim-dev@vim.org)>

For discussions about changing Vim: New features, porting, beta-test versions, etc.

<[vim-announce@vim.org](mailto:vim-announce@vim.org)>

Announcements about new versions of Vim; also beta-test versions and ports to different systems.

<[vim-multibyte@vim.org](mailto:vim-multibyte@vim.org)>

For discussions about using and improving the multi-byte aspects of Vim: XIM, Hangul, fontset, etc.

<[vim-mac@vim.org](mailto:vim-mac@vim.org)>

For discussions about using and improving Vim on the Macintosh.

For more info and URLs of the archives see "<http://www.vim.org/maillist.php>".

## NOTE:

- You can only send messages to these lists if you have subscribed!
- You need to send the messages from the same location as where you subscribed from (to avoid spam mail).
- Maximum message size is 40000 characters.

If you want to join a maillist, send a message to

<[vim-help@vim.org](mailto:vim-help@vim.org)>

Make sure that your "From:" address is correct. Then the list server will send you a help message.

MAIN AUTHOR

Send any other comments, patches, pizza and suggestions to:

Bram Moolenaar E-mail: Bram@vim.org  
Finsterruetihof 1  
8134 Adliswil  
Switzerland

## 2.343 vmxnet3 1.2.0.0-k

### 2.343.1 Available under license :

```
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## 2.344 w3m 0.4

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From the README

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Feel free to send your opinion to the author.

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

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#
# Original author: Tom Tromey
# Severely truncated by Hans-J. Boehm
/*
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* modified is included with the above copyright notice.
*/

/*
* Note that this defines a large number of tuning hooks, which can
* safely be ignored in nearly all cases. For normal use it suffices
* to call only GC_MALLOC and perhaps GC_REALLOC.
* For better performance, also look at GC_MALLOC_ATOMIC, and
* GC_enable_incremental. If you need an action to be performed
* immediately before an object is collected, look at GC_register_finalizer.
* If you are using Solaris threads, look at the end of this file.
* Everything else is best ignored unless you encounter performance
* problems.
*/

#ifndef _GC_H

# define _GC_H

/*
* Some tests for old macros. These violate our namespace rules and will
* disappear shortly. Use the GC_ names.
*/
#if defined(SOLARIS_THREADS) || defined(_SOLARIS_THREADS)
# define GC_SOLARIS_THREADS
#endif
#if defined(_SOLARIS_PTHREADS)
# define GC_SOLARIS_PTHREADS
#endif
#if defined(IRIX_THREADS)

```

```

# define GC_IRIX_THREADS
#endif
#if defined(DGUX_THREADS)
# if !defined(GC_DGUX386_THREADS)
# define GC_DGUX386_THREADS
# endif
#endif
#if defined(HPUX_THREADS)
# define GC_HPUX_THREADS
#endif
#if defined(OSF1_THREADS)
# define GC_OSF1_THREADS
#endif
#if defined(LINUX_THREADS)
# define GC_LINUX_THREADS
#endif
#if defined(WIN32_THREADS)
# define GC_WIN32_THREADS
#endif
#if defined(USE_LD_WRAP)
# define GC_USE_LD_WRAP
#endif

#if !defined(_REENTRANT) && (defined(GC_SOLARIS_THREADS) \
    || defined(GC_SOLARIS_PTHREADS) \
    || defined(GC_HPUX_THREADS) \
    || defined(GC_LINUX_THREADS))
# define _REENTRANT
/* Better late than never. This fails if system headers that */
/* depend on this were previously included. */
#endif

#if defined(GC_DGUX386_THREADS) && !defined(_POSIX4A_DRAFT10_SOURCE)
# define _POSIX4A_DRAFT10_SOURCE 1
#endif

#if defined(GC_SOLARIS_PTHREADS) && !defined(GC_SOLARIS_THREADS)
# define GC_SOLARIS_THREADS
#endif

# if defined(GC_SOLARIS_PTHREADS) || defined(GC_FREEBSD_THREADS) || \
defined(GC_IRIX_THREADS) || defined(GC_LINUX_THREADS) || \
defined(GC_HPUX_THREADS) || defined(GC_OSF1_THREADS) || \
defined(GC_DGUX386_THREADS) || \
    (defined(GC_WIN32_THREADS) && defined(__CYGWIN32__))
# define GC_PTHREADS
# endif

```

```

# define __GC
# include <stddef.h>
# ifdef _WIN32_WCE
/* Yet more kluges for WinCE */
# include <stdlib.h> /* size_t is defined here */
typedef long ptrdiff_t; /* ptrdiff_t is not defined */
# endif

#if defined(__MINGW32__) && defined(_DLL) && !defined(GC_NOT_DLL)
# ifdef GC_BUILD
# define GC_API __declspec(dllexport)
# else
# define GC_API __declspec(dllimport)
# endif
#endif

#if (defined(__DMC__) || defined(_MSC_VER)) \
    && (defined(_DLL) && !defined(GC_NOT_DLL) \
        || defined(GC_DLL))
# ifdef GC_BUILD
# define GC_API extern __declspec(dllexport)
# else
# define GC_API __declspec(dllimport)
# endif
#endif

#if defined(__WATCOMC__) && defined(GC_DLL)
# ifdef GC_BUILD
# define GC_API extern __declspec(dllexport)
# else
# define GC_API extern __declspec(dllimport)
# endif
#endif

#ifndef GC_API
#define GC_API extern
#endif

# if defined(__STDC__) || defined(__cplusplus)
# define GC_PROTO(args) args
typedef void * GC_PTR;
# define GC_CONST const
# else
# define GC_PROTO(args) ()
typedef char * GC_PTR;
# define GC_CONST
# endif

```



```

# ifdef __cplusplus
extern "C" {
# endif

/* Define word and signed_word to be unsigned and signed types of the */
/* size as char * or void *. There seems to be no way to do this */
/* even semi-portably. The following is probably no better/worse */
/* than almost anything else. */
/* The ANSI standard suggests that size_t and ptr_diff_t might be */
/* better choices. But those appear to have incorrect definitions */
/* on many systems. Notably "typedef int size_t" seems to be both */
/* frequent and WRONG. */
typedef unsigned long GC_word;
typedef long GC_signed_word;

/* Public read-only variables */

GC_API GC_word GC_gc_no; /* Counter incremented per collection. */
/* Includes empty GCs at startup. */

GC_API int GC_parallel; /* GC is parallelized for performance on */
/* multiprocessors. Currently set only */
/* implicitly if collector is built with */
/* -DPARALLEL_MARK and if either: */
/* Env variable GC_NPROC is set to > 1, or */
/* GC_NPROC is not set and this is an MP. */
/* If GC_parallel is set, incremental */
/* collection is only partially functional, */
/* and may not be desirable. */

/* Public R/W variables */

GC_API GC_PTR (*GC_oom_fn) GC_PROTO((size_t bytes_requested));
/* When there is insufficient memory to satisfy */
/* an allocation request, we return */
/* (*GC_oom_fn)(). By default this just */
/* returns 0. */
/* If it returns, it must return 0 or a valid */
/* pointer to a previously allocated heap */
/* object. */

GC_API int GC_find_leak;
/* Do not actually garbage collect, but simply */
/* report inaccessible memory that was not */
/* deallocated with GC_free. Initial value */
/* is determined by FIND_LEAK macro. */

```

```

GC_API int GC_all_interior_pointers;
/* Arrange for pointers to object interiors to */
/* be recognized as valid. May not be changed */
/* after GC initialization. */
/* Initial value is determined by */
/* -DALL_INTERIOR_POINTERS. */
/* Unless DONT_ADD_BYTE_AT_END is defined, this */
/* also affects whether sizes are increased by */
/* at least a byte to allow "off the end" */
/* pointer recognition. */
/* MUST BE 0 or 1. */

GC_API int GC_quiet; /* Disable statistics output. Only matters if */
/* collector has been compiled with statistics */
/* enabled. This involves a performance cost, */
/* and is thus not the default. */

GC_API int GC_finalize_on_demand;
/* If nonzero, finalizers will only be run in */
/* response to an explicit GC_invoke_finalizers */
/* call. The default is determined by whether */
/* the FINALIZE_ON_DEMAND macro is defined */
/* when the collector is built. */

GC_API int GC_java_finalization;
/* Mark objects reachable from finalizable */
/* objects in a separate postpass. This makes */
/* it a bit safer to use non-topologically- */
/* ordered finalization. Default value is */
/* determined by JAVA_FINALIZATION macro. */

GC_API void (* GC_finalizer_notifier)();
/* Invoked by the collector when there are */
/* objects to be finalized. Invoked at most */
/* once per GC cycle. Never invoked unless */
/* GC_finalize_on_demand is set. */
/* Typically this will notify a finalization */
/* thread, which will call GC_invoke_finalizers */
/* in response. */

GC_API int GC_dont_gc; /* Dont collect unless explicitly requested, e.g. */
/* because it's not safe. */

GC_API int GC_dont_expand;
/* Dont expand heap unless explicitly requested */
/* or forced to. */

```

```

GC_API int GC_use_entire_heap;
/* Causes the nonincremental collector to use the */
/* entire heap before collecting. This was the only */
/* option for GC versions < 5.0. This sometimes */
/* results in more large block fragmentation, since */
/* very larg blocks will tend to get broken up */
/* during each GC cycle. It is likely to result in a */
/* larger working set, but lower collection */
/* frequencies, and hence fewer instructions executed */
/* in the collector. */

GC_API int GC_full_freq; /* Number of partial collections between */
/* full collections. Matters only if */
/* GC_incremental is set. */
/* Full collections are also triggered if */
/* the collector detects a substantial */
/* increase in the number of in-use heap */
/* blocks. Values in the tens are now */
/* perfectly reasonable, unlike for */
/* earlier GC versions. */

GC_API GC_word GC_non_gc_bytes;
/* Bytes not considered candidates for collection. */
/* Used only to control scheduling of collections. */
/* Updated by GC_malloc_uncollectable and GC_free. */
/* Wizards only. */

GC_API int GC_no_dls;
/* Don't register dynamic library data segments. */
/* Wizards only. Should be used only if the */
/* application explicitly registers all roots. */
/* In Microsoft Windows environments, this will */
/* usually also prevent registration of the */
/* main data segment as part of the root set. */

GC_API GC_word GC_free_space_divisor;
/* We try to make sure that we allocate at */
/* least N/GC_free_space_divisor bytes between */
/* collections, where N is the heap size plus */
/* a rough estimate of the root set size. */
/* Initially, GC_free_space_divisor = 4. */
/* Increasing its value will use less space */
/* but more collection time. Decreasing it */
/* will appreciably decrease collection time */
/* at the expense of space. */
/* GC_free_space_divisor = 1 will effectively */
/* disable collections. */

```

```

GC_API GC_word GC_max_retries;
/* The maximum number of GCs attempted before */
/* reporting out of memory after heap */
/* expansion fails. Initially 0. */

GC_API char *GC_stackbottom; /* Cool end of user stack. */
/* May be set in the client prior to */
/* calling any GC_ routines. This */
/* avoids some overhead, and */
/* potentially some signals that can */
/* confuse debuggers. Otherwise the */
/* collector attempts to set it */
/* automatically. */
/* For multithreaded code, this is the */
/* cold end of the stack for the */
/* primordial thread. */

GC_API int GC_dont_precollect; /* Don't collect as part of */
/* initialization. Should be set only */
/* if the client wants a chance to */
/* manually initialize the root set */
/* before the first collection. */
/* Interferes with blacklisting. */
/* Wizards only. */

GC_API unsigned long GC_time_limit;
/* If incremental collection is enabled, */
/* We try to terminate collections */
/* after this many milliseconds. Not a */
/* hard time bound. Setting this to */
/* GC_TIME_UNLIMITED will essentially */
/* disable incremental collection while */
/* leaving generational collection */
/* enabled. */
#define GC_TIME_UNLIMITED 999999
/* Setting GC_time_limit to this value */
/* will disable the "pause time exceeded" */
/* tests. */

/* Public procedures */

/* Initialize the collector. This is only required when using thread-local
* allocation, since unlike the regular allocation routines, GC_local_malloc
* is not self-initializing. If you use GC_local_malloc you should arrange
* to call this somehow (e.g. from a constructor) before doing any allocation.
*/
GC_API void GC_init GC_PROTO((void));

```

```

/*
* general purpose allocation routines, with roughly malloc calling conv.
* The atomic versions promise that no relevant pointers are contained
* in the object. The nonatomic versions guarantee that the new object
* is cleared. GC_malloc_stubborn promises that no changes to the object
* will occur after GC_end_stubborn_change has been called on the
* result of GC_malloc_stubborn. GC_malloc_uncollectable allocates an object
* that is scanned for pointers to collectable objects, but is not itself
* collectable. The object is scanned even if it does not appear to
* be reachable. GC_malloc_uncollectable and GC_free called on the resulting
* object implicitly update GC_non_gc_bytes appropriately.
*
* Note that the GC_malloc_stubborn support is stubbed out by default
* starting in 6.0. GC_malloc_stubborn is an alias for GC_malloc unless
* the collector is built with STUBBORN_ALLOC defined.
*/
GC_API GC_PTR GC_malloc GC_PROTO((size_t size_in_bytes));
GC_API GC_PTR GC_malloc_atomic GC_PROTO((size_t size_in_bytes));
GC_API GC_PTR GC_malloc_uncollectable GC_PROTO((size_t size_in_bytes));
GC_API GC_PTR GC_malloc_stubborn GC_PROTO((size_t size_in_bytes));

/* The following is only defined if the library has been suitably */
/* compiled: */
GC_API GC_PTR GC_malloc_atomic_uncollectable GC_PROTO((size_t size_in_bytes));

/* Explicitly deallocate an object. Dangerous if used incorrectly. */
/* Requires a pointer to the base of an object. */
/* If the argument is stubborn, it should not be changeable when freed. */
/* An object should not be enable for finalization when it is */
/* explicitly deallocated. */
/* GC_free(0) is a no-op, as required by ANSI C for free. */
GC_API void GC_free GC_PROTO((GC_PTR object_addr));

/*
* Stubborn objects may be changed only if the collector is explicitly informed.
* The collector is implicitly informed of coming change when such
* an object is first allocated. The following routines inform the
* collector that an object will no longer be changed, or that it will
* once again be changed. Only nonNIL pointer stores into the object
* are considered to be changes. The argument to GC_end_stubborn_change
* must be exactly the value returned by GC_malloc_stubborn or passed to
* GC_change_stubborn. (In the second case it may be an interior pointer
* within 512 bytes of the beginning of the objects.)
* There is a performance penalty for allowing more than
* one stubborn object to be changed at once, but it is acceptable to
* do so. The same applies to dropping stubborn objects that are still
* changeable.

```

```

*/
GC_API void GC_change_stubborn GC_PROTO((GC_PTR));
GC_API void GC_end_stubborn_change GC_PROTO((GC_PTR));

/* Return a pointer to the base (lowest address) of an object given */
/* a pointer to a location within the object. */
/* I.e. map an interior pointer to the corresponding base pointer. */
/* Note that with debugging allocation, this returns a pointer to the */
/* actual base of the object, i.e. the debug information, not to */
/* the base of the user object. */
/* Return 0 if displaced_pointer doesn't point to within a valid */
/* object. */
GC_API GC_PTR GC_base GC_PROTO((GC_PTR displaced_pointer));

/* Given a pointer to the base of an object, return its size in bytes. */
/* The returned size may be slightly larger than what was originally */
/* requested. */
GC_API size_t GC_size GC_PROTO((GC_PTR object_addr));

/* For compatibility with C library. This is occasionally faster than */
/* a malloc followed by a bcopy. But if you rely on that, either here */
/* or with the standard C library, your code is broken. In my */
/* opinion, it shouldn't have been invented, but now we're stuck. -HB */
/* The resulting object has the same kind as the original. */
/* If the argument is stubborn, the result will have changes enabled. */
/* It is an error to have changes enabled for the original object. */
/* Follows ANSI conventions for NULL old_object. */
GC_API GC_PTR GC_realloc
GC_PROTO((GC_PTR old_object, size_t new_size_in_bytes));

/* Explicitly increase the heap size. */
/* Returns 0 on failure, 1 on success. */
GC_API int GC_expand_hp GC_PROTO((size_t number_of_bytes));

/* Limit the heap size to n bytes. Useful when you're debugging, */
/* especially on systems that don't handle running out of memory well. */
/* n == 0 ==> unbounded. This is the default. */
GC_API void GC_set_max_heap_size GC_PROTO((GC_word n));

/* Inform the collector that a certain section of statically allocated */
/* memory contains no pointers to garbage collected memory. Thus it */
/* need not be scanned. This is sometimes important if the application */
/* maps large read/write files into the address space, which could be */
/* mistaken for dynamic library data segments on some systems. */
GC_API void GC_exclude_static_roots GC_PROTO((GC_PTR start, GC_PTR finish));

/* Clear the set of root segments. Wizards only. */
GC_API void GC_clear_roots GC_PROTO((void));

```

```

/* Add a root segment. Wizards only. */
GC_API void GC_add_roots GC_PROTO((char * low_address,
    char * high_address_plus_1));

/* Add a displacement to the set of those considered valid by the */
/* collector. GC_register_displacement(n) means that if p was returned */
/* by GC_malloc, then (char *)p + n will be considered to be a valid */
/* pointer to n. N must be small and less than the size of p. */
/* (All pointers to the interior of objects from the stack are */
/* considered valid in any case. This applies to heap objects and */
/* static data.) */
/* Preferably, this should be called before any other GC procedures. */
/* Calling it later adds to the probability of excess memory */
/* retention. */
/* This is a no-op if the collector was compiled with recognition of */
/* arbitrary interior pointers enabled, which is now the default. */
GC_API void GC_register_displacement GC_PROTO((GC_word n));

/* The following version should be used if any debugging allocation is */
/* being done. */
GC_API void GC_debug_register_displacement GC_PROTO((GC_word n));

/* Explicitly trigger a full, world-stop collection. */
GC_API void GC_gcollect GC_PROTO((void));

/* Trigger a full world-stopped collection. Abort the collection if */
/* and when stop_func returns a nonzero value. Stop_func will be */
/* called frequently, and should be reasonably fast. This works even */
/* if virtual dirty bits, and hence incremental collection is not */
/* available for this architecture. Collections can be aborted faster */
/* than normal pause times for incremental collection. However, */
/* aborted collections do no useful work; the next collection needs */
/* to start from the beginning. */
/* Return 0 if the collection was aborted, 1 if it succeeded. */
typedef int (* GC_stop_func) GC_PROTO((void));
GC_API int GC_try_to_collect GC_PROTO((GC_stop_func stop_func));

/* Return the number of bytes in the heap. Excludes collector private */
/* data structures. Includes empty blocks and fragmentation loss. */
/* Includes some pages that were allocated but never written. */
GC_API size_t GC_get_heap_size GC_PROTO((void));

/* Return a lower bound on the number of free bytes in the heap. */
GC_API size_t GC_get_free_bytes GC_PROTO((void));

/* Return the number of bytes allocated since the last collection. */
GC_API size_t GC_get_bytes_since_gc GC_PROTO((void));

```

```

/* Return the total number of bytes allocated in this process. */
/* Never decreases. */
GC_API size_t GC_get_total_bytes GC_PROTO((void));

/* Enable incremental/generational collection. */
/* Not advisable unless dirty bits are */
/* available or most heap objects are */
/* pointerfree(atomic) or immutable. */
/* Don't use in leak finding mode. */
/* Ignored if GC_dont_gc is true. */
/* Only the generational piece of this is */
/* functional if GC_parallel is TRUE */
/* or if GC_time_limit is GC_TIME_UNLIMITED. */
/* Causes GC_local_gcj_malloc() to revert to */
/* locked allocation. Must be called */
/* before any GC_local_gcj_malloc() calls. */
GC_API void GC_enable_incremental GC_PROTO((void));

/* Does incremental mode write-protect pages? Returns zero or */
/* more of the following, or'ed together: */
#define GC_PROTECTS_POINTER_HEAP 1 /* May protect non-atomic objs. */
#define GC_PROTECTS_PTRFREE_HEAP 2
#define GC_PROTECTS_STATIC_DATA 4 /* Curently never. */
#define GC_PROTECTS_STACK 8 /* Probably impractical. */

#define GC_PROTECTS_NONE 0
GC_API int GC_incremental_protection_needs GC_PROTO((void));

/* Perform some garbage collection work, if appropriate. */
/* Return 0 if there is no more work to be done. */
/* Typically performs an amount of work corresponding roughly */
/* to marking from one page. May do more work if further */
/* progress requires it, e.g. if incremental collection is */
/* disabled. It is reasonable to call this in a wait loop */
/* until it returns 0. */
GC_API int GC_collect_a_little GC_PROTO((void));

/* Allocate an object of size lb bytes. The client guarantees that */
/* as long as the object is live, it will be referenced by a pointer */
/* that points to somewhere within the first 256 bytes of the object. */
/* (This should normally be declared volatile to prevent the compiler */
/* from invalidating this assertion.) This routine is only useful */
/* if a large array is being allocated. It reduces the chance of */
/* accidentally retaining such an array as a result of scanning an */
/* integer that happens to be an address inside the array. (Actually, */
/* it reduces the chance of the allocator not finding space for such */
/* an array, since it will try hard to avoid introducing such a false */

```



```

/* reference.) On a SunOS 4.X or MS Windows system this is recommended */
/* for arrays likely to be larger than 100K or so. For other systems, */
/* or if the collector is not configured to recognize all interior */
/* pointers, the threshold is normally much higher. */
GC_API GC_PTR GC_malloc_ignore_off_page GC_PROTO((size_t lb));
GC_API GC_PTR GC_malloc_atomic_ignore_off_page GC_PROTO((size_t lb));

#if defined(__sgi) && !defined(__GNUC__) && _COMPILER_VERSION >= 720
# define GC_ADD_CALLER
# define GC_RETURN_ADDR (GC_word)__return_address
#endif

#ifndef GC_ADD_CALLER
# define GC_EXTRAS GC_RETURN_ADDR, __FILE__, __LINE__
# define GC_EXTRA_PARAMS GC_word ra, GC_CONST char * s, int i
#else
# define GC_EXTRAS __FILE__, __LINE__
# define GC_EXTRA_PARAMS GC_CONST char * s, int i
#endif

/* Debugging (annotated) allocation. GC_gcollect will check */
/* objects allocated in this way for overwrites, etc. */
GC_API GC_PTR GC_debug_malloc
GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API GC_PTR GC_debug_malloc_atomic
GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API GC_PTR GC_debug_malloc_uncollectable
GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API GC_PTR GC_debug_malloc_stubborn
GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API void GC_debug_free GC_PROTO((GC_PTR object_addr));
GC_API GC_PTR GC_debug_realloc
GC_PROTO((GC_PTR old_object, size_t new_size_in_bytes,
GC_EXTRA_PARAMS));

GC_API void GC_debug_change_stubborn GC_PROTO((GC_PTR));
GC_API void GC_debug_end_stubborn_change GC_PROTO((GC_PTR));
# ifdef GC_DEBUG
# define GC_MALLOC(sz) GC_debug_malloc(sz, GC_EXTRAS)
# define GC_MALLOC_ATOMIC(sz) GC_debug_malloc_atomic(sz, GC_EXTRAS)
# define GC_MALLOC_UNCOLLECTABLE(sz) GC_debug_malloc_uncollectable(sz, \
GC_EXTRAS)
# define GC_REALLOC(old, sz) GC_debug_realloc(old, sz, GC_EXTRAS)
# define GC_FREE(p) GC_debug_free(p)
# define GC_REGISTER_FINALIZER(p, f, d, of, od) \
GC_debug_register_finalizer(p, f, d, of, od)
# define GC_REGISTER_FINALIZER_IGNORE_SELF(p, f, d, of, od) \
GC_debug_register_finalizer_ignore_self(p, f, d, of, od)

```

```

# define GC_REGISTER_FINALIZER_NO_ORDER(p, f, d, of, od) \
GC_debug_register_finalizer_no_order(p, f, d, of, od)
# define GC_MALLOC_STUBBORN(sz) GC_debug_malloc_stubborn(sz, GC_EXTRAS);
# define GC_CHANGE_STUBBORN(p) GC_debug_change_stubborn(p)
# define GC_END_STUBBORN_CHANGE(p) GC_debug_end_stubborn_change(p)
# define GC_GENERAL_REGISTER_DISAPPEARING_LINK(link, obj) \
GC_general_register_disappearing_link(link, GC_base(obj))
# define GC_REGISTER_DISPLACEMENT(n) GC_debug_register_displacement(n)
# else
# define GC_MALLOC(sz) GC_malloc(sz)
# define GC_MALLOC_ATOMIC(sz) GC_malloc_atomic(sz)
# define GC_MALLOC_UNCOLLECTABLE(sz) GC_malloc_uncollectable(sz)
# define GC_REALLOC(old, sz) GC_realloc(old, sz)
# define GC_FREE(p) GC_free(p)
# define GC_REGISTER_FINALIZER(p, f, d, of, od) \
GC_register_finalizer(p, f, d, of, od)
# define GC_REGISTER_FINALIZER_IGNORE_SELF(p, f, d, of, od) \
GC_register_finalizer_ignore_self(p, f, d, of, od)
# define GC_REGISTER_FINALIZER_NO_ORDER(p, f, d, of, od) \
GC_register_finalizer_no_order(p, f, d, of, od)
# define GC_MALLOC_STUBBORN(sz) GC_malloc_stubborn(sz)
# define GC_CHANGE_STUBBORN(p) GC_change_stubborn(p)
# define GC_END_STUBBORN_CHANGE(p) GC_end_stubborn_change(p)
# define GC_GENERAL_REGISTER_DISAPPEARING_LINK(link, obj) \
GC_general_register_disappearing_link(link, obj)
# define GC_REGISTER_DISPLACEMENT(n) GC_register_displacement(n)
# endif

/* The following are included because they are often convenient, and */
/* reduce the chance for a misspecified size argument. But calls may */
/* expand to something syntactically incorrect if t is a complicated */
/* type expression. */
# define GC_NEW(t) (t *)GC_MALLOC(sizeof (t))
# define GC_NEW_ATOMIC(t) (t *)GC_MALLOC_ATOMIC(sizeof (t))
# define GC_NEW_STUBBORN(t) (t *)GC_MALLOC_STUBBORN(sizeof (t))
# define GC_NEW_UNCOLLECTABLE(t) (t *)GC_MALLOC_UNCOLLECTABLE(sizeof (t))

/* Finalization. Some of these primitives are grossly unsafe. */
/* The idea is to make them both cheap, and sufficient to build */
/* a safer layer, closer to PCedar finalization. */
/* The interface represents my conclusions from a long discussion */
/* with Alan Demers, Dan Greene, Carl Hauser, Barry Hayes, */
/* Christian Jacobi, and Russ Atkinson. It's not perfect, and */
/* probably nobody else agrees with it. Hans-J. Boehm 3/13/92 */
typedef void (*GC_finalization_proc)
GC_PROTO((GC_PTR obj, GC_PTR client_data));

GC_API void GC_register_finalizer
GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,

```

```

    GC_finalization_proc *ofn, GC_PTR *ocd));
GC_API void GC_debug_register_finalizer
    GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
    GC_finalization_proc *ofn, GC_PTR *ocd));
/* When obj is no longer accessible, invoke */
/* (*fn)(obj, cd). If a and b are inaccessible, and */
/* a points to b (after disappearing links have been */
/* made to disappear), then only a will be */
/* finalized. (If this does not create any new */
/* pointers to b, then b will be finalized after the */
/* next collection.) Any finalizable object that */
/* is reachable from itself by following one or more */
/* pointers will not be finalized (or collected). */
/* Thus cycles involving finalizable objects should */
/* be avoided, or broken by disappearing links. */
/* All but the last finalizer registered for an object */
/* is ignored. */
/* Finalization may be removed by passing 0 as fn. */
/* Finalizers are implicitly unregistered just before */
/* they are invoked. */
/* The old finalizer and client data are stored in */
/* *ofn and *ocd. */
/* Fn is never invoked on an accessible object, */
/* provided hidden pointers are converted to real */
/* pointers only if the allocation lock is held, and */
/* such conversions are not performed by finalization */
/* routines. */
/* If GC_register_finalizer is aborted as a result of */
/* a signal, the object may be left with no */
/* finalization, even if neither the old nor new */
/* finalizer were NULL. */
/* Obj should be the nonNULL starting address of an */
/* object allocated by GC_malloc or friends. */
/* Note that any garbage collectable object referenced */
/* by cd will be considered accessible until the */
/* finalizer is invoked.

/* Another versions of the above follow. It ignores */
/* self-cycles, i.e. pointers from a finalizable object to */
/* itself. There is a stylistic argument that this is wrong, */
/* but it's unavoidable for C++, since the compiler may */
/* silently introduce these. It's also benign in that specific */
/* case.
/* Note that cd will still be viewed as accessible, even if it */
/* refers to the object itself.
GC_API void GC_register_finalizer_ignore_self
    GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
    GC_finalization_proc *ofn, GC_PTR *ocd));

```

```

GC_API void GC_debug_register_finalizer_ignore_self
GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
  GC_finalization_proc *ofn, GC_PTR *ocd));

/* Another version of the above. It ignores all cycles.    */
/* It should probably only be used by Java implementations. */
/* Note that cd will still be viewed as accessible, even if it */
/* refers to the object itself.    */
GC_API void GC_register_finalizer_no_order
GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
  GC_finalization_proc *ofn, GC_PTR *ocd));
GC_API void GC_debug_register_finalizer_no_order
GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
  GC_finalization_proc *ofn, GC_PTR *ocd));

/* The following routine may be used to break cycles between */
/* finalizable objects, thus causing cyclic finalizable */
/* objects to be finalized in the correct order. Standard */
/* use involves calling GC_register_disappearing_link(&p), */
/* where p is a pointer that is not followed by finalization */
/* code, and should not be considered in determining */
/* finalization order.    */
GC_API int GC_register_disappearing_link GC_PROTO((GC_PTR /* link */));
/* Link should point to a field of a heap allocated */
/* object obj. *link will be cleared when obj is */
/* found to be inaccessible. This happens BEFORE any */
/* finalization code is invoked, and BEFORE any */
/* decisions about finalization order are made. */
/* This is useful in telling the finalizer that */
/* some pointers are not essential for proper */
/* finalization. This may avoid finalization cycles. */
/* Note that obj may be resurrected by another */
/* finalizer, and thus the clearing of *link may */
/* be visible to non-finalization code. */
/* There's an argument that an arbitrary action should */
/* be allowed here, instead of just clearing a pointer. */
/* But this causes problems if that action alters, or */
/* examines connectivity. */
/* Returns 1 if link was already registered, 0 */
/* otherwise. */
/* Only exists for backward compatibility. See below: */

GC_API int GC_general_register_disappearing_link
GC_PROTO((GC_PTR /* link */, GC_PTR obj));
/* A slight generalization of the above. *link is */
/* cleared when obj first becomes inaccessible. This */
/* can be used to implement weak pointers easily and */

```

```

/* safely. Typically link will point to a location */
/* holding a disguised pointer to obj. (A pointer */
/* inside an "atomic" object is effectively */
/* disguised.) In this way soft */
/* pointers are broken before any object */
/* reachable from them are finalized. Each link */
/* May be registered only once, i.e. with one obj */
/* value. This was added after a long email discussion */
/* with John Ellis. */
/* Obj must be a pointer to the first word of an object */
/* we allocated. It is unsafe to explicitly deallocate */
/* the object containing link. Explicitly deallocating */
/* obj may or may not cause link to eventually be */
/* cleared. */
GC_API int GC_unregister_disappearing_link GC_PROTO((GC_PTR * /* link */));
/* Returns 0 if link was not actually registered. */
/* Undoes a registration by either of the above two */
/* routines. */

/* Auxiliary fns to make finalization work correctly with displaced */
/* pointers introduced by the debugging allocators. */
GC_API GC_PTR GC_make_closure GC_PROTO((GC_finalization_proc fn, GC_PTR data));
GC_API void GC_debug_invoke_finalizer GC_PROTO((GC_PTR obj, GC_PTR data));

/* Returns !=0 if GC_invoke_finalizers has something to do. */
GC_API int GC_should_invoke_finalizers GC_PROTO((void));

GC_API int GC_invoke_finalizers GC_PROTO((void));
/* Run finalizers for all objects that are ready to */
/* be finalized. Return the number of finalizers */
/* that were run. Normally this is also called */
/* implicitly during some allocations. If */
/* GC-finalize_on_demand is nonzero, it must be called */
/* explicitly. */

/* GC_set_warn_proc can be used to redirect or filter warning messages. */
/* p may not be a NULL pointer. */
typedef void (*GC_warn_proc) GC_PROTO((char *msg, GC_word arg));
GC_API GC_warn_proc GC_set_warn_proc GC_PROTO((GC_warn_proc p));
/* Returns old warning procedure. */

/* The following is intended to be used by a higher level */
/* (e.g. Java-like) finalization facility. It is expected */
/* that finalization code will arrange for hidden pointers to */
/* disappear. Otherwise objects can be accessed after they */
/* have been collected. */
/* Note that putting pointers in atomic objects or in */
/* nonpointer slots of "typed" objects is equivalent to */

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```

/* disguising them in this way, and may have other advantages. */
# if defined(I_HIDE_POINTERS) || defined(GC_I_HIDE_POINTERS)
    typedef GC_word GC_hidden_pointer;
#   define HIDE_POINTER(p) (~(GC_hidden_pointer)(p))
#   define REVEAL_POINTER(p) ((GC_PTR)(HIDE_POINTER(p)))
/* Converting a hidden pointer to a real pointer requires verifying */
/* that the object still exists. This involves acquiring the */
/* allocator lock to avoid a race with the collector. */
# endif /* I_HIDE_POINTERS */

typedef GC_PTR (*GC_fn_type) GC_PROTO((GC_PTR client_data));
GC_API GC_PTR GC_call_with_alloc_lock
    GC_PROTO((GC_fn_type fn, GC_PTR client_data));

/* The following routines are primarily intended for use with a */
/* preprocessor which inserts calls to check C pointer arithmetic. */

/* Check that p and q point to the same object. */
/* Fail conspicuously if they don't. */
/* Returns the first argument. */
/* Succeeds if neither p nor q points to the heap. */
/* May succeed if both p and q point to between heap objects. */
GC_API GC_PTR GC_same_obj GC_PROTO((GC_PTR p, GC_PTR q));

/* Checked pointer pre- and post- increment operations. Note that */
/* the second argument is in units of bytes, not multiples of the */
/* object size. This should either be invoked from a macro, or the */
/* call should be automatically generated. */
GC_API GC_PTR GC_pre_incr GC_PROTO((GC_PTR *p, size_t how_much));
GC_API GC_PTR GC_post_incr GC_PROTO((GC_PTR *p, size_t how_much));

/* Check that p is visible */
/* to the collector as a possibly pointer containing location. */
/* If it isn't fail conspicuously. */
/* Returns the argument in all cases. May erroneously succeed */
/* in hard cases. (This is intended for debugging use with */
/* untyped allocations. The idea is that it should be possible, though */
/* slow, to add such a call to all indirect pointer stores.) */
/* Currently useless for multithreaded worlds. */
GC_API GC_PTR GC_is_visible GC_PROTO((GC_PTR p));

/* Check that if p is a pointer to a heap page, then it points to */
/* a valid displacement within a heap object. */
/* Fail conspicuously if this property does not hold. */
/* Uninteresting with GC_all_interior_pointers. */
/* Always returns its argument. */
GC_API GC_PTR GC_is_valid_displacement GC_PROTO((GC_PTR p));

```

```

/* Safer, but slow, pointer addition. Probably useful mainly with */
/* a preprocessor. Useful only for heap pointers. */
#ifdef GC_DEBUG
# define GC_PTR_ADD3(x, n, type_of_result) \
((type_of_result)GC_same_obj((x)+(n), (x)))
# define GC_PRE_INCR3(x, n, type_of_result) \
((type_of_result)GC_pre_incr(&(x), (n)*sizeof(*x))
# define GC_POST_INCR2(x, type_of_result) \
((type_of_result)GC_post_incr(&(x), sizeof(*x))
# ifdef __GNUC__
#   define GC_PTR_ADD(x, n) \
GC_PTR_ADD3(x, n, typeof(x))
#   define GC_PRE_INCR(x, n) \
GC_PRE_INCR3(x, n, typeof(x))
#   define GC_POST_INCR(x, n) \
GC_POST_INCR3(x, sizeof(x))
# else
/* We can't do this right without typeof, which ANSI */
/* decided was not sufficiently useful. Repeatedly */
/* mentioning the arguments seems too dangerous to be */
/* useful. So does not casting the result. */
#   define GC_PTR_ADD(x, n) ((x)+(n))
#   endif
#else /* !GC_DEBUG */
# define GC_PTR_ADD3(x, n, type_of_result) ((x)+(n))
# define GC_PTR_ADD(x, n) ((x)+(n))
# define GC_PRE_INCR3(x, n, type_of_result) ((x) += (n))
# define GC_PRE_INCR(x, n) ((x) += (n))
# define GC_POST_INCR2(x, n, type_of_result) ((x)++)
# define GC_POST_INCR(x, n) ((x)++)
#endif

/* Safer assignment of a pointer to a nonstack location. */
#ifdef GC_DEBUG
# ifdef __STDC__
#   define GC_PTR_STORE(p, q) \
(*(void **)GC_is_visible(p) = GC_is_valid_displacement(q))
# else
#   define GC_PTR_STORE(p, q) \
(*(char **)GC_is_visible(p) = GC_is_valid_displacement(q))
# endif
#else /* !GC_DEBUG */
#   define GC_PTR_STORE(p, q) *((p) = (q))
#endif

/* Fynctions called to report pointer checking errors */
GC_API void (*GC_same_obj_print_proc) GC_PROTO((GC_PTR p, GC_PTR q));

```

```

GC_API void (*GC_is_valid_displacement_print_proc)
GC_PROTO((GC_PTR p));

GC_API void (*GC_is_visible_print_proc)
GC_PROTO((GC_PTR p));

/* For pthread support, we generally need to intercept a number of */
/* thread library calls. We do that here by macro defining them. */

#if !defined(GC_USE_LD_WRAP) && \
    (defined(GC_PTHREADS) || defined(GC_SOLARIS_THREADS))
#include "gc_pthread_redirects.h"
#endif

# if defined(PCR) || defined(GC_SOLARIS_THREADS) || \
    defined(GC_PTHREADS) || defined(GC_WIN32_THREADS)
    /* Any flavor of threads except SRC_M3. */
    /* This returns a list of objects, linked through their first */
    /* word. Its use can greatly reduce lock contention problems, since */
    /* the allocation lock can be acquired and released many fewer times. */
    /* lb must be large enough to hold the pointer field. */
    /* It is used internally by gc_local_alloc.h, which provides a simpler */
    /* programming interface on Linux. */
GC_PTR GC_malloc_many(size_t lb);
#define GC_NEXT(p) (*(GC_PTR *) (p)) /* Retrieve the next element */
    /* in returned list. */
extern void GC_thr_init(); /* Needed for Solaris/X86 */

#endif /* THREADS && !SRC_M3 */

#if defined(GC_WIN32_THREADS)
#include <windows.h>
#include <winbase.h>

/*
 * All threads must be created using GC_CreateThread, so that they will be
 * recorded in the thread table. For backwards compatibility, this is not
 * technically true if the GC is built as a dynamic library, since it can
 * and does then use DllMain to keep track of thread creations. But new code
 * should be built to call GC_CreateThread.
 */
HANDLE WINAPI GC_CreateThread(
    LPSECURITY_ATTRIBUTES lpThreadAttributes,
    DWORD dwStackSize, LPTHREAD_START_ROUTINE lpStartAddress,
    LPVOID lpParameter, DWORD dwCreationFlags, LPDWORD lpThreadId );

# if defined(_WIN32_WCE)

```



```

/*
 * win32_threads.c implements the real WinMain, which will start a new thread
 * to call GC_WinMain after initializing the garbage collector.
 */
int WINAPI GC_WinMain(
    HINSTANCE hInstance,
    HINSTANCE hPrevInstance,
    LPWSTR lpCmdLine,
    int nCmdShow );

# ifndef GC_BUILD
#  define WinMain GC_WinMain
#  define CreateThread GC_CreateThread
# endif
# endif /* defined(_WIN32_WCE) */

#endif /* defined(GC_WIN32_THREADS) */

/*
 * If you are planning on putting
 * the collector in a SunOS 5 dynamic library, you need to call GC_INIT()
 * from the statically loaded program section.
 * This circumvents a Solaris 2.X (X<=4) linker bug.
 */
#if defined(sparc) || defined(__sparc)
#  define GC_INIT() { extern end, etext; \
    GC_noop(&end, &etext); }
#else
#  if defined(__CYGWIN32__) && defined(GC_USE_DLL) || defined (_AIX)
/*
 * Similarly gnu-win32 DLLs need explicit initialization from
 * the main program, as does AIX.
 */
#  define GC_INIT() { GC_add_roots(DATASTART, DATAEND); }
#  else
#  define GC_INIT()
#  endif
#endif

#if !defined(_WIN32_WCE) \
    && ((defined(_MSDOS) || defined(_MSC_VER)) && (_M_IX86 >= 300) \
    || defined(_WIN32) && !defined(__CYGWIN32__) && !defined(__CYGWIN__))
/* win32S may not free all resources on process exit. */
/* This explicitly deallocates the heap. */
GC_API void GC_win32_free_heap ();
#endif

#if ( defined(_AMIGA) && !defined(GC_AMIGA_MAKINGLIB) )

```

```
/* Allocation really goes through GC_amiga_allocwrapper_do */
#include "gc_amiga_redirects.h"
#endif

#if defined(GC_REDIRECT_TO_LOCAL) && !defined(GC_LOCAL_ALLOC_H)
#include "gc_local_alloc.h"
#endif

#ifdef __cplusplus
} /* end of extern "C" */
#endif

#endif /* _GC_H */
```

## 2.345 wget 1.11.4

### 2.345.1 Available under license :

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/\* <filename>.c

\*

\* \$Id: gpl-template.txt 41278 2012-03-01 17:39:22Z wmeier \$

\*

\* Wireshark - Network traffic analyzer

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



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name: XML-SAX-Expat  
version: 0.40  
abstract: SAX Driver for Expat  
license: perl  
author:  
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## 2.365 yaml 0.1.2

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```

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```

```
Version 1.0beta3
```

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```

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\* -----

\*/

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\* sdbm - ndbm work-alike hashed database library

\* based on Per-Aake Larson's Dynamic Hashing algorithms. BIT 18 (1978).

\* author: oz@nexus.yorku.ca

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```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

\*/

For the expat xml parser component:

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 */
```

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## 3.8 jsmin 2007-12-04

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```
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2007-12-04
```

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```
*/
```

## 3.9 libpcap 1.1.1

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## 3.10 luajit 2.0.2

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It was downloaded from <<http://labs.watchmouse.com/2009/10/extending-mysql-5-with-ipv6-functions/>>

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\$Id: 3rd-party-licenses.txt 27626 2011-12-22 23:11:49Z david \$

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On all platforms, Nmap is normally linked with:

- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.  
<http://www.tcpdump.org/>
- o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP\_MODIFICATIONS.  
<http://code.google.com/p/libdnet/>
- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.  
<http://www.pcre.org/>
- o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.  
<http://www.lua.org/>
- o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. A binary copy of the OpenSSL library for Windows is distributed with Nmap in the subdirectory mswin32/OpenSSL. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.  
<http://www.openssl.org/>
- o LIBLINEAR. Used for IPv6 OS classification.  
<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>

- o libsvn. The Subversion library, used by the updater program  
nmap-update. <http://subversion.apache.org/>
- o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

- o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.  
<http://www.winpcap.org/>

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:

- o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.  
<http://www.python.org/>

The Windows and Mac OS X binary packages include bundled versions of:

- o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.  
<http://www.gtk.org/>
- o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.  
<http://www.cairographics.org/>
- o libgailutil: Accessibility support for GTK+.
- o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.  
<http://www.libpng.org/> <http://www.ijg.org/> <http://www.libtiff.org/>
- o zlib and bzip2: compression libraries.  
<http://www.zlib.org/> <http://www.bzip.org/>
- o Expat: XML parser library.  
<http://expat.sourceforge.net/>
- o fontconfig: font configuration library.  
<http://www.fontconfig.org/>
- o FreeType: font rendering library.  
<http://www.freetype.org/>
- o libiconv. Under the GNU LGPL 2.  
<http://www.gnu.org/software/libiconv/>
- o libintl: gettext translation facilities. Under the GNU LGPL 2 and 2.1.  
<http://www.gnu.org/software/gettext/>
- o libxml2: XML parsing library.  
<http://xmlsoft.org/>
- o SQLite.  
<http://www.sqlite.org/>
- o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.  
<http://www.pygtk.org/>
- o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1

and the MPL 1.1.

The Mac OS binary packages also include:

o Various X.org libraries. These were built using MacPorts.

<http://www.x.org/> <http://www.macports.org/>

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Written by: Philip Hazel  
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Silk icon set 1.3

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Mark James

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