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Jan 21, 2002

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the

code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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Directory native/fdlibm

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David Megginson,
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* m4/ax_func_which_gethostbyname_r.m4

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Version 3, 29 June 2007

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=====
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mach_override lib/interception/mach_override

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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@appendixsubsec Preamble

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library.

The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

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@end ifinfo

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@enumerate a

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@item

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the files modified to carry prominent notices

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@end enumerate

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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.

@item

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

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work.

(Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

@item

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@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

@smallexample

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

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@end smallexample

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

You should also get your employer (if you work as a programmer) or your

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@smallexample

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

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

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gfdl

@settitle GNU Free Documentation License

@c man begin SEEALSO

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

@c man end

@c man begin COPYRIGHT

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of this license document, but changing it is not allowed.

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

@c hence no sectioning command or @node.

@c man end

@end ignore

@c Special handling for inclusion in the install manual.

@ifset gfdlhtml

@ifnohtml

@comment node-name, next, previous, up

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

@end ifnohtml

@html

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

@end html

@ifnohtml

@unnumbered GNU Free Documentation License

@end ifnohtml

@end ifset

@c man begin DESCRIPTION

@ifclear gfdlhtml

@node GNU Free Documentation License

@unnumbered

GNU Free Documentation License

@end ifclear

@cindex FDL, GNU Free Documentation License

@center Version 1.3, 3 November 2008

@display

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@enumerate 0

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1.4 rsync 3.1.3

1.5 bzip2 1.0.8

1.6 json-c 0.99.8

1.6.1 Available under license :

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1.7 glibc 2.23

1.7.1 Available under license :

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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

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

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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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@item

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

Otherwise,
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distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable ``work that
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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate

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Version 3, 29 June 2007

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The

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section 10

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```
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1.9 fcgi 2.4.0

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1.10 bridgeutils 1.5

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.11 popt 1.16

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1.12 gdb 7.8

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Ty Coon, President of Vice

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/* Native-dependent code for x86 BSD's.

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```
#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H
```

```
#include "x86-nat.h"
```

```
/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;
```

```
/* A prototype *BSD/x86 target. */
```

```
template<typename BaseTarget>
class x86bsd_nat_target
: public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
#endif /* HAVE_PT_GETDBREGS */
};
```

```
#endif /* x86-bsd-nat.h */
```

```
/* Native-dependent code for modern i386 BSD's.
```

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```
#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
                                             int regnum);
extern void i386bsd_store_inferior_registers
(struct regcache *regcache,
 int regnum);

/* A prototype *BSD/i386 target. */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
void fetch_registers (struct regcache *regcache, int regnum) override
{ i386bsd_fetch_inferior_registers (regcache, regnum); }

void store_registers (struct regcache *regcache, int regnum) override
{ i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
/* Native-dependent code for modern AMD64 BSD's.
```

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```
#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern
void amd64bsd_store_inferior_registers (struct regcache *regcache,
        int regnum);

/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
    void fetch_registers (struct regcache *regcache, int regnum) override
    { amd64bsd_fetch_inferior_registers (regcache, regnum); }

    void store_registers (struct regcache *regcache, int regnum) override
    { amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
```

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@c man end

@end ignore

@node Copying

@c man begin DESCRIPTION

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@enumerate 0

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@enumerate a

@item

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@item

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@enumerate a

@item

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@item

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

@item

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

@item

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

@item

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User

Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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network.

Corresponding Source conveyed, and Installation Information provided, in accord with this

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the ``copyright" line and a pointer to where the full notice is found.

@smallexample

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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
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The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an ``about box".

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@c man end

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

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

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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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.

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.

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

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

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

That's all there is to it!
/* BSD Kernel Data Access Library (libkvm) interface.

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```
#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"
#include "value.h"
#include "gdbcore.h"
#include
```

```

"inferior.h"      /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
   register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
   target currently doesn't export any view of the running processes,
   so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */

static
const target_info bsd_kvm_target_info = {
    "kvm",
    N_("Kernel memory interface"),
    N_("Use a kernel virtual memory image as a target.\n\
Optionally specify the filename of a core dump."),
};

class bsd_kvm_target final : public process_stratum_target
{

```



```

public:
    bsd_kvm_target () = default;

    const target_info &info () const override
    { return bsd_kvm_target_info; }

    void close () override;

    void fetch_registers (struct regcache *, int) override;
    enum target_xfer_status xfer_partial (enum target_object object,
        const char *annex,
        gdb_byte *readbuf,
        const gdb_byte *writebuf,
        ULONGEST offset, ULONGEST len,
        ULONGEST *xfered_len) override;

    void files_info () override;
    bool thread_alive (ptid_t ptid) override;
    const char *pid_to_str (ptid_t) override;

    bool has_memory () override { return true; }
    bool has_stack () override { return true; }
    bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target
    bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
    char errbuf[_POSIX2_LINE_MAX];
    char *execfile = NULL;
    kvm_t *temp_kd;
    char *filename = NULL;

    target_preopen (from_tty);

    if (arg)
    {
        char *temp;

        filename = tilde_expand (arg);
        if (filename[0] != '/')
        {
            temp = concat (current_directory, "/", filename, (char *)NULL);
            xfree (filename);
        }
    }
}

```

```

    filename = temp;
}
}

execfile = get_exec_file (0);
temp_kd = kvm_openfiles (execfile, filename, NULL,
    write_files ? O_RDWR : O_RDONLY, errbuf);
if (temp_kd == NULL)
    error ("%s", errbuf);

bsd_kvm_corefile = filename;
unpush_target (&bsd_kvm_ops);
core_kd = temp_kd;
push_target (&bsd_kvm_ops);

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
    if (core_kd)
    {
        if (kvm_close (core_kd) == -1)
            warning ("%s", kvm_geterr(core_kd));
        core_kd = NULL;
    }

    inferior_ptid = null_ptid;
    discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
    gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
        nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
        nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
}

```

```

return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
    const char *annex, gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
        case TARGET_OBJECT_MEMORY:
        {
            LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

            if (ret < 0)
                return TARGET_XFER_E_IO;
            else if (ret == 0)
                return TARGET_XFER_EOF;
            else
            {
                *xfered_len = (ULONGEST)
ret;
                return TARGET_XFER_OK;
            }
        }

        default:
            return TARGET_XFER_E_IO;
    }
}

void
bsd_kvm_target::files_info ()
{
    if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
        printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
            bsd_kvm_corefile);
    else
        printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
    struct pcb pcb;

```

```

if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
    error (("%%s"), kvm_geterr (core_kd));

gdb_assert (bsd_kvm_supply_pcb);
return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
    struct nlist nl[2];

    if (bsd_kvm_paddr)
    {
        bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
        return;
    }

    /* On dumping core, BSD kernels store the faulting context (PCB)

    in the variable "dumppcb". */
    memset (nl, 0, sizeof nl);
    nl[0].n_name = "_dumppcb";

    if (kvm_nlist (core_kd, nl) == -1)
        error (("%%s"), kvm_geterr (core_kd));

    if (nl[0].n_value != 0)
    {
        /* Found dumppcb. If it contains a valid context, return
        immediately. */
        if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
            return;
    }

    /* Traditional BSD kernels have a process proc0 that should always
    be present. The address of proc0's PCB is stored in the variable
    "proc0paddr". */

    memset (nl, 0, sizeof nl);
    nl[0].n_name = "_proc0paddr";

    if (kvm_nlist (core_kd, nl) == -1)
        error (("%%s"), kvm_geterr (core_kd));

    if (nl[0].n_value != 0)
    {

```

```

    struct pcb *paddr;

    /* Found proc0paddr. */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
        error (("s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels
for 5.0-RELEASE and later, the PCB no longer
lives in `struct proc' but in `struct thread'. The `struct
thread' for the initial thread for proc0 can be found in the
variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error (("s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found thread0. */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
        error (("s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{

```

```

/* ??? Should this become an alias for "target kvm"? */
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB

static
void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
    CORE_ADDR addr;

    if (arg == NULL)
        error_no_arg (_, "proc address");

    if (core_kd == NULL)
        error (_, "No kernel memory image.");

    addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
#else
    addr += offsetof (struct proc, p_addr);
#endif

    if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
        error (("%%s"), kvm_geterr (core_kd));

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
    if (arg == NULL)
        /* i18n: PCB == "Process Control Block". */
        error_no_arg (_, "pcb address");

    if (core_kd == NULL)
        error (_, "No kernel memory image.");

    bsd_kvm_paddr = (struct pcb *) (u_long) parse_and_eval_address (arg);

    target_fetch_registers (get_current_regcache (),

```

```

-1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
    return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
    static char buf[64];
    xsnprintf (buf, sizeof buf, "<kvm>");
    return buf;
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

    add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\
Generic command for manipulating the kernel memory interface."),
        &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifdef HAVE_STRUCT_THREAD_TD_PCB
    add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
        _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
    add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
        /* i18n: PCB == "Process Control Block". */
        _("Set current context from pcb address"), &bsd_kvm_cmdlist);

    /* Some notes on the ptid usage on this target.

       The pid field represents the kvm inferior instance. Currently,
       we don't support multiple kvm inferiors, but we start at 1

```

anyway. The lwp field is set to != 0, in case the core wants to refer to the whole kvm inferior with ptid(1,0,0).

If kvm is made to export running processes as gdb threads, the following form can be used:

```
ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */
```

```
bsd_kvm_ptid = ptid_t (1, 1, 0);
}
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!! \" \
\"-* - buffer-read-only: t -* - vi\" \
\":set ro: ";
  print " It is created automatically by copying.awk.";
  print " Modify copying.awk instead. <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (const char *, int);"
  print ""
  print "static void show_warranty_command (const char *, int);"
  print ""
  print "static void";
  print "show_copying_command (const char *ignore, int from_tty)";
  print "{";
}
NR == 1,/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/ {
  if ($0 ~ //)
  {
    printf " printf_filtered (\"\\n\\n\");\n";
  }
  else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\.[ ]*$/ )
  {
    printf " printf_filtered (\"";
    for (i = 1; i < NF; i++)
      printf "%s\\n", $i;
    printf "%s\\n\");\n", $NF;
  }
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/ {
```



```

print "}";
print "";
print "static void";
print "show_warranty_command (const char *ignore, int from_tty)";
print "{";
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/ ,/^[ ]*END OF TERMS AND CONDITIONS[ ]*$/ {
    if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
    {
        printf " printf_filtered (\\"";
        for (i = 1; i < NF; i++)
        printf "%s\\\\" , $i;
        printf "%s\\n\\");\\n", $NF;
    }
}
END {
    print "}";
    print "";
    print "void"
    print "_initialize_copying (void)";
    print "{";
    print " add_cmd (\\"copying\\", no_set_class, show_copying_command, ";
    print " _(\\"Conditions for redistributing copies of GDB.\\");";
    print " &showlist);";
    print " add_cmd (\\"warranty\\", no_set_class, show_warranty_command, ";
    print " _(\\"Various kinds of warranty you do not have.\\");";
    print " &showlist);";
    print "";
    print " /* For old-timers, allow \\"info copying\\", etc. */";
    print " add_info (\\"copying\\", show_copying_command, ";

    print " _(\\"Conditions for redistributing copies of GDB.\\");";
    print " add_info (\\"warranty\\", show_warranty_command, ";
    print " _(\\"Various kinds of warranty you do not have.\\");";
    print "}";
}
#!/usr/bin/env python

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#
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```

```
"""copyright.py
```

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!

A useful command to review

the output is:

```
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
```

This removes the bulk of the changes which are most likely to be correct.

```
"""
```

```
import datetime
import os
import os.path
import subprocess
```

```
def get_update_list():
    """Return the list of files to update.
```

Assumes that the current working directory when called is the root of the GDB source tree (NOT the gdb/ subdirectory!). The names of the files are relative to that root directory.

```
"""
```

```
result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
        for filename in files:
            relpath = "%s/%s" % (root, filename)
            if (filename in EXCLUDE_ALL_LIST
```

```

        or relpath in EXCLUDE_LIST
        or relpath in NOT_FSF_LIST
        or relpath in BY_HAND):
    # Ignore this file.
    pass
else:
    result.append(relpath)
return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd
    = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                          stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith("\n"):

            line = line[:-1]
            if line.endswith(warning_string):
                filename = line[:-warning_len]

```

```

    if may_have_copyright_notice(filename):
        print line
    else:
        # Unrecognized file format. !?!
        print "*** " + line

```

```

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

```

The filename is relative to the root directory.
 This function assumes that the current working directory is that root directory.

The algorithm is fairly crude, meaning that it might return some false positives. I do not think it will return any false negatives... We might improve this function to handle more complex cases later...

```

    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

```

```

    fd = open(filename)

```

```

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
    if lineno > 50:
        return False
    return False

```

```

def main():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...

```

```

if MULTIPLE_COPYRIGHT_HEADERS:
    print
    print("\033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:"
          "\033[0m")
    for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print " ", filename

if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
    for filename in BY_HAND:
        print " ", filename

#####
#
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
#####

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all
# files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

```

```

# The list of files to update by hand.
BY_HAND = (
    # Nothing at the moment :-).
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h",
    "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accftp.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",

```

```

"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h",
"sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h",
"sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

```

```

if __name__ == "__main__":

```

```

    main()

```

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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<one line to give the library's name and a brief idea of what it does.>

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1.13 libsmi 0.5.0

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

Title: shhopt - library for parsing command line options.

Version: 1.1.2

Entered-date: 23MAR97

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

Keywords: programming, library, lib, commandline, options

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

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

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

[shhopt-1.1.2.tar.gz](#)

Platforms: Requires ANSI C-compiler.

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

1.14 xz 5.2.3

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1.15 json-c 0.12

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1.16 fdisk 2.30.2

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1.26 audit 1.0.0

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1.27 openosc 1.0.3

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1.28 linux-kernel 4.14.136

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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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1.31 libyaml 0.2.5

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1.32 elfutils 0.172

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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Upstream-Name: ls-config

Source: <https://github.com/lucas-net-pl/ls-config>

Files: *

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@c \input texinfo.tex @c -*-texinfo-*-

@c

@c %**start of header

@c All text is ignored before the setfilename.

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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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You may copy and distribute the Library (or a portion or derivative of it, under Section 2)

in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or

source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from

it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@page

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@format

@t{

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

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Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
}
@end format

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necessary. Here is a sample; alter the names:

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
}
@end format

That's all there is to it!

@c @bye

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Version 2.1, February 1999

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that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

That's all there is to it!

1.36 lua 5.4.2

1.36.1 Available under license :

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#!/usr/bin/env lua5.3

-- special marks:
-- \1 - paragraph (empty line)
-- \4 - remove spaces around it
-- \3 - ref (followed by label|)

```
-----
header = [[
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<html>

<head>
<title>Lua 5.4 Reference Manual</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<link rel="stylesheet" href="lua.css">
<link rel="stylesheet" href="manual.css">
</head>

<body bgcolor="#FFFFFF">

<hr>
<h1>
<a href="http://www.lua.org/home.html"></a>
Lua 5.4 Reference Manual
```

</h1>

by Roberto Ierusalimschy, Luiz Henrique de Figueiredo, Waldemar Celes

<p>

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<hr>

<!-- ===== -->

<p>

]]

footer

= "\n\n</body></html>\n\n"

local seefmt = '(see %s)'

if arg[1] == 'port' then

seefmt = '(ver %s)'

header = string.gsub(header, "by (.-)\n",

"%1\n<p>Tradução Sérgio Queiroz de Medeiros", 1)

header = string.gsub(header, "Lua (%d+.%d+) Reference Manual",

"Manual de Referência de Lua %1")

header = string.gsub(header, "All rights reserved",

"Todos os direitos reservados")

end

local function compose (f,g)

assert(f and g)

return function (s) return g(f(s)) end

end

local function concat (f, g)

assert(f and g)

return function (s) return f(s) .. g(s) end

end

local Tag = {}

setmetatable(Tag, {

```

__index = function (t, tag)
  local v = function (n, att)
    local e = ""
    if type(att) == "table" then
      for k,v in pairs(att) do e = string.format("%s %s=\"%s\"", e, k, v) end
    end
    if n then
      return string.format("<%s%s>%s</%s>", tag, e, n, tag)
    else
      return string.format("<%s%s>", tag, e)
    end
  end
  t[tag] = v
  return v
end
})

```

```

local labels = {}

```

```

local function anchor (text, label, link, textlink)
  if labels[label] then
    error("label " .. label .. " already defined")
  end
  labels[label] = {text = textlink, link = link}
  return Tag.a(text, {name=link})
end

```

```

local function makeref (label)
  assert(not string.find(label, "|"))
  return string.format("\3%s\3", label)
end

```

```

local function ref (label)
  local l = labels[label]
  if not l then
    io.stderr:write("label ", label, " undefined\n")
    return "@@@"
  else
    return Tag.a(l.text, {href="#"..l.link})
  end
end

```

```

local function nopara (t)

```

```

t = string.gsub(t, "\1", "\n\n")
t = string.gsub(t, "<p>%s*</p>", "")
return t
end

```

```

local function fixpara (t)
t = string.gsub(t, "\1", "\n</p>\n\n<p>\n")
t = string.gsub(t, "<p>%s*</p>", "")
return t
end

```

```

local function antipara (t)
return "</p>\n" .. t .. "<p>"
end

```

```

Tag.pre = compose(Tag.pre, antipara)
Tag.ul = compose(Tag.ul, antipara)

```

```

-----
local Gfoots = 0
local footnotes = {}

```

```

local line = Tag.hr(nil)

```

```

local function dischargefoots ()
if #footnotes == 0 then return "" end
local fn = table.concat(footnotes)
footnotes = {}
return line .. Tag.h3"footnotes:" .. fn .. line
end

```

```

local Glists = 0
local listings = {}

```

```

local function dischargelist ()
if #listings == 0 then return "" end
local l = listings
listings = {}
return line .. table.concat(l, line..line) .. line
end

```

```

-----
local counters = {
h1 = {val = 1},
h2 = {father = "h1", val = 1},
h3 = {father = "h2", val = 1},

```



```
listing = {father = "h1", val = 1},  
}
```

```
local  
function inccounter (count)  
  counters[count].val = counters[count].val + 1  
  for c, v in pairs(counters) do  
    if v.father == count then v.val = 1 end  
  end  
end
```

```
local function getcounter (count)  
  local c = counters[count]  
  if c.father then  
    return getcounter(c.father) .. "." .. c.val  
  else  
    return c.val .. ""  
  end  
end
```

```
local function fixed (x)  
  return function () return x end  
end
```

```
local function id (x) return x end
```

```
local function prepos (x, y)  
  assert(x and y)  
  return function (s) return string.format("%s%s%s", x, s, y) end  
end
```

```
local rw = Tag.b
```

```
local function LuaName (name)  
  return Tag.code(name)  
end
```

```
local function getparam (s)  
  local i, e = string.find(s, "^[^%s@|]+")  
  if not i then return nil, s
```

```

else return string.sub(s, i, e - 1), string.sub(s, e + 1)
end
end

local function gettitle (h)
local title, p = assert(string.match(h, "<title>(.-)</title>()"))
return title, string.sub(h,
p)
end

local function getparamtitle (what, h, nonum)
local label, title, c, count
label, h = getparam(h)
title, h = gettitle(h)
if not nonum then
count = getcounter(what)
inccounter(what)
c = string.format("%s &ndash; ", count)
else
c = ""
end
label = label or count
if label then
title = anchor(title, label, count, "&sect;"..count)
end
title = string.format("%s%s", c, title)
return title, h
end

local function section (what, nonum)
return function (h)
local title
title, h = getparamtitle(what, h, nonum)
local fn = what == "h1" and dischargefoots() or ""
h = fixpara(Tag.p(h))
return "</p>\n" .. Tag[what](title) .. h .. fn ..
dischargelist() .. "<p>"
end
end

local function verbatim (s)
s = nopara(s)
s = string.gsub(s, "\\n", "\n ")
s = string.gsub(s, "\\n%s*$", "\n")
return Tag.pre(s)
end

```

```

local function verb (s)
    return Tag.code(s)
end

```

```

local function lua2link
(e)
    return string.find(e, "luaL?_" ) and e or "pdf-"..e
end

```

```

local verbfixed = verb

```

```

local Tex = {

```

```

    ANSI = function (func)
        return "ISO&nbsp;C function " .. Tag.code(func)
    end,
    At = fixed"@ ",
    B = Tag.b,
    bigskip = fixed"",
    bignum = id,
    C = fixed"",
    Ci = prepos("<!-- ", " -->"),
    CId = function (func)
        return "C&nbsp;function " .. Tag.code(func)
    end,
    chapter = section"h1",
    Char = compose(verbfixed, prepos("", "")),
    Cdots = fixed"&middot;&middot;&middot;",
    Close = fixed"}",
    col = Tag.td,
    defid = function (name)
        local l = lua2link(name)
        local c = Tag.code(name)
        return anchor(c, l, l, c)
    end,
    def = Tag.em,
    description = compose(nopara, Tag.ul),
    Em = fixed("\4" .. "&mdash;" .. "\4"),
    emph = Tag.em,
    emphx = Tag.em, -- emphasis plus index (if there was an index)
    En = fixed("&ndash;"),
    format = fixed"",
    ["false"] = fixed(Tag.b"false"),

```

```

id = Tag.code,
idx = Tag.code,
index = fixed"",
Lidx = fixed"", -- Tag.code,
ldots
= fixed"...",
x = id,
itemize = compose(nopara, Tag.ul),
leq = fixed"&le;",
Lid = function (s)
    return makeref(lua2link(s))
end,
M = Tag.em,
N = function (s) return (string.gsub(s, " ", "&nbsp;")) end,
NE = id, -- tag"foreignphrase",
num = id,
["nil"] = fixed(Tag.b"nil"),
fail = fixed(Tag.b"fail"),
Open = fixed"{",
part = section("h1", true),
Pat = compose(verbfixed, prepos("", "")),
preface = section("h1", true),
psect = section("h2", true),
Q = prepos("", ""),
refchp = makeref,
refcode = makeref,
refsec = makeref,

pi = fixed"&pi;",
rep = Tag.em, -- compose(prepos("&lt;", "&gt;"), Tag.em),
Rw = rw,
rw = rw,
sb = Tag.sub,
sp = Tag.sup,
St = compose(verbfixed, prepos("", "")),
sect1 = section"h1",
sect2 = section"h2",
sect3 = section"h3",
sect4 = section("h4", true),
simplesect = id,
Tab2 = function (s) return Tag.table(s, {border=1}) end,
row = Tag.tr,
title = Tag.title,
todo = Tag.todo,
["true"] = fixed(Tag.b"true"),
T = verb,

item = function (s)

```

```

local t, p = string.match(s, "^(^[^\\n|]+)|()")
if t then
    s = string.sub(s, p)
    s = Tag.b(t.."": ") .. s
end
return Tag.li(fixpara(s))
end,

verbatim = verbatim,

manual = id,

-- for the manual

link =function (s)
    local l, t = getparam(s)
    assert(l)
    return string.format("%s (%s)", t, makeref(l))
end,

see = function (s) return string.format(seefmt, makeref(s)) end,
See = makeref,
seeC = function (s)
    return string.format(seefmt, makeref(s))
end,

seeF = function (s)
    return string.format(seefmt, makeref(lua2link(s)))
end,

APIEntry = function (e)
    local h, name
    h, e = string.match(e, "^%s*(.-)%s*|(.*)$")
    name = string.match(h, "(luaL?_[%w_]+)%)? +%(") or
        string.match(h, "luaL?_[%w_]+")
    local a = anchor(Tag.code(name), name, name, Tag.code(name))
    local apiicmd, ne = string.match(e, "^(.-</span>)(.*)")
    --io.stderr:write(e)
    if not apiicmd then
        return antipara(Tag.hr() .. Tag.h3(a))
        .. Tag.pre(h) .. e
    else
        return antipara(Tag.hr() .. Tag.h3(a)) .. apiicmd .. Tag.pre(h) .. ne
    end
end,
end,

```

```

LibEntry = function (e)
  local h, name
  h, e = string.match(e, "^(-)|(.*)$")
  name = string.gsub(h, "(.+)", "")
  local l = lua2link(name)
  local a = anchor(Tag.code(h), l, l, Tag.code(name))
  return Tag.hr() .. Tag.h3(a) .. e
end,

Produc = compose(nopara, Tag.pre),
producname = prepos("\t", " ::= "),
Or = fixed" | ",
VerBar = fixed"&#124;", -- vertical bar
OrNL = fixed" | \4",
bnfNter = prepos("", ""),
bnfopt = prepos("[", "]"),
bnfrep = prepos("{", "}"),
bnfter = compose(Tag.b, prepos("&lquo;", "&rquo;")),
producbody = function (s)
  s = string.gsub(s, "%s+", " ")
  s = string.gsub(s, "\4", "\n\t")
  return s
end,

apii = function (s)
  local pop, push, err = string.match(s, "^(-)|(-)|(.*)$")
  if pop ~= "?" and string.find(pop, "%W") then
    pop = "(" .. pop .. ")"
  end
  if push ~= "?"
and string.find(push, "%W") then
    push = "(" .. push .. ")"
  end
  err = (err == "-") and "&ndash;" or Tag.em(err)
  return Tag.span(
    string.format("[-%s, +%s, %s]", pop, push, err),
    {class="apii"}
  )
end,
}

local others = prepos("?? ", " ??")

local function trata (t)
  t = string.gsub(t, "@(%w+)(%b{})", function (w, f)
    f = trata(string.sub(f, 2, -2))
    if type(Tex[w]) ~= "function" then
      io.stderr:write(w .. "\n")
    end
  end)
end

```

```

        return others(f)
    else
        return Tex[w](f, w)
    end
end)
return t
end

```

```

-----
-----

-- read whole book
t = io.read"*a"

t = string.gsub(t, "[<>&\128-\255]",
{["<"] = "&lt;",
[">"] = "&gt;",
["&"] = "&amp;",
["\170"] = "&ordf;",
["\186"] = "&ordm;",
["\192"] = "&Agrave;",
["\193"] = "&Aacute;",
["\194"] = "&Acirc;",
["\195"] = "&Atilde;",
["\199"] = "&Ccedil;",
["\201"] = "&Eacute;",
["\202"] = "&Ecirc;",
["\205"] = "&Iacute;",
["\211"] = "&Oacute;",
["\212"] = "&Ocirc;",
["\218"] = "&Uacute;",
["\224"] = "&agrave;",
["\225"] = "&aacute;",
["\226"] = "&acirc;",
["\227"] = "&atilde;",
["\231"] = "&ccedil;",
["\233"] = "&eacute;",
["\234"] = "&ecirc;",
["\237"] = "&iacute;",
["\243"] = "&oacute;",
["\244"] = "&ocirc;",
["\245"] = "&otilde;",
["\250"] = "&uacute;",
["\252"] = "&uuml;"}
})

```

```

t = string.gsub(t, "\n\n+", "\1")

```

```

-- complete macros with no arguments
t = string.gsub(t, "(@%w+)([^\%w])", "%1{%2}")

t = trata(t)

-- correct references
t = string.gsub(t, "\3(-)\3", ref)

-- remove extra space (??)
t = string.gsub(t, "%s*\4%s*", "")

t = nopara(t)

-- HTML 3.2 does not need </p> (but complains when it is in wrong places :)
t = string.gsub(t, "</p>", "")

```

```
io.write(header, t, footer)
```

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*

/lua-lua-v5-4-2-0-g9d067ab-tar-gz/lua-lua-9d067ab/manual/2html

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```

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```

```
*
```

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Found in path(s):

* /lua-lua-v5-4-2-0-g9d067ab-tar-gz/lua-lua-9d067ab/testes/all.lua

1.37 opkg 0.1.8

1.37.1 Available under license :

=== Contributors ===

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1.44 procps 3.2.8

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1.45 libxml2 2.9.11

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1.46 ncurses 6.3

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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-- vile: txtmode file-encoding=utf-8
Upstream source <https://invisible-island.net/ncurses/ncurses.html>
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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FAQ:
 ====

The
 questions and answers below try to summarize the intentions behind this
 licensing scheme.

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 licenses?

A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?

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Q: Who is permitted to create non-free plugins for syslog-ng?

Is it just

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1.50 glib 2.70.5

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1.51 expat 2.5.0

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1.52 systemd 219-42-9

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1.53 curl 7.88.1

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1.54 protobuf 3.21.12

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- * VI syntax highlighting tweaks.
- * Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

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

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- * Added @Override annotation to generated Java code where appropriate.

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- * Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

- * Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

- * Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>

- * gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

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

Wink Saville <wink@google.com>

- * Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- * Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

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

Scott Stafford <scott.stafford@gmail.com>

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

Alexander Melnikov <alm@sibmail.ru>

- * HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- * Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- * Fixed detection of sched_yield on Solaris.

- * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

Nipunn Koorapati <nipunn1313@gmail.com>

- * Provide a type alias field ValueType on EnumTypeWrapper
- * Match service argument names to abstract interface

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1.55 selinux 2.8

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1.56 libfastjson 0.99.8

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1.57 libsemanage-common 2.8

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1.58 libsepol 2.8

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1.60 ustr 1.0.4.16

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1.63 yajl 2.1.0

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1.64 zlib 1.2.13

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The End

1.67 cyrus-sasl 2.1.28

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1.71 fuse 2.9.3

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```

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1.72 memcached 1.5.7

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Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

A list is generated from git here: <http://memcached.org/about>

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1.73 util-linux 2.30.2

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e
```

```
calculate_md5_sum() {
  local FILE="$1"

  # Read the contents of the file into a variable
  local raw_license_text=$(<"$FILE")

  # Convert to lowercase
  local lowercase_license_text="{raw_license_text,,}"

  # Remove anything before the beginning of the license
  local stripped_license_text=$(awk '/permission is hereby granted/{p=1} p' <<< "$lowercase_license_text")

  # Replace line breaks (Windows or Linux) with a single space
  local replaced_linebreaks=$(tr "\r\n" ' ' <<< "$stripped_license_text")
```

```

# Replace multiple spaces with a single space
local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

# Strip away any non-printable, non-whitespace characters
local clean_unprintable_license_text=$(tr
-cd '[:print:][:space:]' <<< "$normalized_license_text")

# Remove punctuation and special characters
local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

# Calculate the MD5 sum of the cleaned license text
local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

# Output the MD5 sum
echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
    echo "Please provide a FILE as an argument."
    exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"

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WEV @@ WEV[B "1

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x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
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1.74 pcre 8.44

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1.75 libjitterentropy 3.4.1

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1.77 iputils 20101006

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/*

* arping.c

*

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*

* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>

*/

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```
/*
 * tracepath6.c
 *
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 * as published by the Free Software Foundation; either version
 * 2 of the License, or (at your option) any later version.
 *
 * Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
 */
```

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`/iputils-s20101006-tar-gz/iputils-s20101006/tracepath6.c`

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```
/*_
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 *
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 * Van Jacobson.
 *
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```

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* SUCH DAMAGE.
*/

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*

/iputils-s20101006-tar-gz/iputils-s20101006/traceroute6.c

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/* pg3.c: Packet Generator for packet performance testing.

*

* Copyright 2001 by Robert Olsson <robert.olsson@its.uu.se>

*

Uppsala University, Sweden

*

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* (at your option) any later version.

*

*

*

*/

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/*

* rarpd.c RARP daemon.

*

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* 2 of the License, or (at your option) any later version.
*
* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
*/

Found in path(s):

* /iputils-s20101006-tar-gz/iputils-s20101006/rarpd.c

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=head1 NAME

docbook2man-spec - convert DocBook RefEntries to Unix manpages

=head1 SYNOPSIS

The SGMLSpm package from CPAN. This contains the sgmlspl script which is used to grok this file. Use it like this:

```
nsgmls some-docbook-document.sgml | sgmlspl docbook2man-spec.pl
```

=head1 DESCRIPTION

This is a sgmlspl spec file that produces Unix-style manpages from RefEntry markup.

See the accompanying RefEntry man page for 'plain new' documentation. :)

=head1 LIMITATIONS

Trying docbook2man on non-DocBook or non-conformant SGML results in undefined behavior. :-)

This program is a slow, dodgy Perl script.

This program does not come close to supporting all the possible markup in DocBook, and will produce wrong output in some cases with supported markup.

=head1 TODO

Add new element handling and fix existing handling. Be robust. Produce cleanest, readable man output as possible (unlike some other converters). Follow Linux man(7) convention. If this results in added logic in this script,

that's okay. The code should still be reasonably organized.

Make it faster. If Perl sucks port it to another language.

=head1 COPYRIGHT

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=cut

\$Id: docbook2man-spec.pl,v 1.1 2000/07/21 20:22:30 rosalia Exp \$

use SGMLS; # Use the SGMLS package.
use SGMLS::Output; # Use stack-based output.
use SGMLS::Refs;

SGMLSPL script produced automatically by
the script sgmlspl.pl

Document Type: any, but processes only RefEntries
Edited by: me :)
#####

\$write_manpages = 0;
\$blank_xrefs = 0;

sgml('start', sub {
push_output('nul');
\$raw_cdata = 1; # Makes it a bit faster.

Links file
open(LINKSFILE, ">manpage.links");

\$Refs = new SGMLS::Refs("manpage.refs");
});
sgml('end', sub {
close(LINKSFILE);
if(\$blank_xrefs) {

```

print STDERR "Warning: output contains unresolved XRefs\n";
}
});

```

```

#####
#
# Output helpers
#
#####

```

```

# Our own version of sgml() and output() to allow simple string output
# to play well with roff's stupid whitespace rules.

```

```

sub man_sgml
{
  if(ref($_[1]) eq 'CODE') {
    return &sgml;
  }

```

```

  my $s = $_[1];

```

```

  $s =~ s/\\\/g;

```

```

  $s =~ s/'\/g;

```

```

  # \n at the beginning means start at beginning of line

```

```

  if($s
    =~ s/^\n/) {
    $sub = 'sub { output "\n" unless $newline_last++; ';
    if($s eq "") {
      sgml($_[0], eval('sub { output "\n" unless $newline_last++; }'));
    } elsif($s =~ /\n$/) {
      sgml($_[0], eval("sub { output \"\\n\" unless \$newline_last++; output '$s'; }"));
    } else {
      sgml($_[0], eval("sub { output \"\\n\" unless \$newline_last; output '$s'; \$newline_last = 0; }"));
    }
  } else {
    if($s =~ /\n$/) {
      sgml($_[0], eval("sub { output '$s'; \$newline_last = 1; }"));
    } else {
      sgml($_[0], eval("sub { output '$s'; \$newline_last = 0; }"));
    }
  }
}

```

```

sub man_output

```

```

{
$_ = shift;
if(s/^\\n/) {
    output "\\n" unless $newline_last++;
}
return if $_ eq "";

output $_;

if(@_) {
    output @_;
    $newline_last = (pop(@_) =~ /\n$/);
} else {
    $newline_last = ($_ =~ /\n$/)
}
}

# Fold lines into one, quote some characters
sub fold_string
{
$_ = shift;

s/^\\\\\\\\/g;
s/'^\\\\&'"/g;

# Change tabs to spaces
tr/^t\\n/ /;

# Trim whitespace from beginning and end.
s/^ +//;
s/
+$///;

return $_;
}

sub save_cdata()
{
$raw_cdata++;
push_output('string');
}

sub bold_on()
{
# If the last font is also bold, don't change anything.
# Basically this is to just get more readable man output.
if($fontstack[$#fontstack] ne 'bold') {
    if(!$raw_cdata) {

```

```

    output '\fB';
    $newline_last = 0;
  }
}
push(@fontstack, 'bold');
}

sub italic_on()
{
  # If the last font is also italic, don't change anything.
  if($fontstack[$#fontstack] ne 'italic') {
    if(!$raw_cdata) {
      output '\fi';
      $newline_last = 0;
    }
  }
  push(@fontstack, 'italic');
}

sub font_off()
{
  my $thisfont = pop(@fontstack);
  my $lastfont = $fontstack[$#fontstack];

  # Only output font change if it is different
  if($thisfont ne $lastfont) {
    if($raw_cdata) { return; }
    elsif($lastfont eq 'bold') { output '\fB'; }
    elsif($lastfont eq 'italic') { output '\fi'; }
    else { output '\fR'; }

    $newline_last = 0;
  }
}

#####
#
#
Manpage management
#
#####

sgml('<REFENTRY>', sub {

```

```

# This will be overwritten at end of REFMETA, when we know the name of the page.
pop_output();

$write_manpages = 1; # Currently writing manpage.

$nocollapse_whitespace = 0; # Current whitespace collapse counter.
$newline_last = 1; # At beginning of line?
# Just a bit of warning, you will see this variable manipulated
# manually a lot. It makes the code harder to follow but it
# saves you from having to worry about collapsing at the end of
# parse, stopping at verbatims, etc.
$raw_cdata = 0; # Instructs certain output functions to
# leave CDATA alone, so we can assign
# it to a string and process it, etc.
@fontstack = (); # Fonts being activated.

$manpage_title = ""; # Needed for indexing.
$manpage_sect = "";
@manpage_names = ();

$manpage_misc = "";

$list_nestlevel = 0; # Indent certain nested
content.
});
sgml('</REFENTRY>', sub {
if(!$newline_last) {
output "\n";
}

$write_manpages = 0;
$raw_cdata = 1;
push_output('nul');
});

sgml('</REFMETA>', sub {
push_output('file', "$manpage_title.$manpage_sect");

output <<_END_BANNER;
.\\" This manpage has been automatically generated by docbook2man
.\\" from a DocBook document. This tool can be found at:
.\\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
.\\" Please send any bug reports, improvements, comments, patches,
.\\" etc. to Steve Cheng <steve\@ggi-project.org>.
_END_BANNER

my $manpage_date = `date "+%d %B %Y"`;

```



```

output '.TH '";

# If the title is not mixed-case, convention says to
# uppercase the whole title. (The canonical title is
# lowercase.)
if($manpage_title =~ /[A-Z]/) {
    output fold_string($manpage_title);
} else {
    output uc(fold_string($manpage_title));
}

output '" "', fold_string($manpage_sect),
'" "', fold_string(`date "+%d %B %Y"`),
'" "', $manpage_misc,
'" "',
$manpage_manual,
"\n\n";

$newline_last = 1;

# References to this RefEntry.
my $id = $_[0]->parent->attribute('ID')->value;
if($id ne "") {
    # The 'package name' part of the section should
    # not be used when citing it.
    my ($sectnum) = ($manpage_sect =~ /[0-9]*/);

    if($_[0]->parent->attribute('XREFLABEL')->value eq "") {
        $Refs->put("refentry:$id", "$manpage_title($sectnum)");
    } else {
        $Refs->put("refentry:$id",
            $_[0]->parent->attribute('XREFLABEL')->value .
            "($sectnum)");
    }
}
});

sgml('<REFENTRYTITLE>', sub {
    if($_[0]->in('REFMETA')) {
        save_cdata();
    } else {
        # Manpage citations are in bold.
        bold_on();
    }
});
sgml('</REFENTRYTITLE>', sub {
    if($_[0]->in('REFMETA')) {
        $raw_cdata--;
    }
});

```

```

$manpage_title = pop_output();
}
else { font_off(); }
});

sgml('<MANVOLNUM>', sub {
  if($_[0]->in('REFMETA')) {
    save_cdata();
  } else {
    # Manpage citations use ().
    output '(';
  }
});
sgml('</MANVOLNUM>', sub {
  if($_[0]->in('REFMETA')) {
    $raw_cdata--;
    $manpage_sect
    = pop_output();
  }
  else { output ')' }
});

sgml('<REFMISCINFO>', \&save_cdata);
sgml('</REFMISCINFO>', sub {
  $raw_cdata--;
  $manpage_misc = fold_string(pop_output());
});

# NAME section
man_sgml('<REFNAMEDIV>', "\n.SH NAME\n");

sgml('<REFNAME>', \&save_cdata);
sgml('</REFNAME>', sub {
  $raw_cdata--;
  push(@manpage_names, pop_output());
});

sgml('<REFPURPOSE>', \&save_cdata);
sgml('</REFPURPOSE>', sub {
  $raw_cdata--;
  my $manpage_purpose = fold_string(pop_output());

  for(my $i = 0; $i < $#manpage_names; $i++) {
    output fold_string($manpage_names[$i]), ', ';
  }

  output fold_string($manpage_names[$#manpage_names]);

```

```

output " \- $manpage_purpose\n";

$newline_last = 1;

foreach(@manpage_names) {
    # Don't link to itself
    if($_ ne $manpage_title) {
        print LINKSFILE "$manpage_title.$manpage_sect $_.$manpage_sect\n";
    }
}
});

man_sgml('<REFCLASS>', "\n.sp\n");

#RefDescriptor

#####
#
#
SYNOPSIS section and synopses
#
#####

man_sgml('<REFSYNOPSISDIV>', "\n.SH SYNOPSIS\n");
man_sgml('</REFSYNOPSISDIV>', "\n");

## FIXME! Must be made into block elements!!
#sgml('<FUNCSYNOPSIS>', \&bold_on);
#sgml('</FUNCSYNOPSIS>', \&font_off);
#sgml('<CMDSYNOPSIS>', \&bold_on);
#sgml('</CMDSYNOPSIS>', \&font_off);

man_sgml('<FUNCSYNOPSIS>', sub {
    man_output("\n.sp\n");
    bold_on();
});
man_sgml('</FUNCSYNOPSIS>', sub {
    font_off();
    man_output("\n");
});

man_sgml('<CMDSYNOPSIS>', "\n\n");
man_sgml('</CMDSYNOPSIS>', "\n\n");

```

```

man_sgml('<FUNCPROTOTYPE>', "\n.sp\n");

# Arguments to functions. This is C convention.
man_sgml('<PARAMDEF>', '(');
man_sgml('</PARAMDEF>', '); \n");
man_sgml('<VOID>', "(void);\n");


sub arg_start
{
# my $choice = $_[0]->attribute('CHOICE')->value;

# The content model for CmdSynopsis doesn't include #PCDATA,
# so we won't see any of the whitespace in the source file,
#
# so we have to add it after each component.
output ' ';

if($_[0]->attribute('CHOICE')->value =~ /opt/i) {
    output '[';
}
bold_on();
}
sub arg_end
{
font_off();
if($_[0]->attribute('REP')->value =~ /^Repeat/i) {
    italic_on();
    output ' ...';
    font_off();
}
if($_[0]->attribute('CHOICE')->value =~ /opt/i) {
    output ']';
}
}

sgml('<ARG>', \&arg_start);
sgml('</ARG>', \&arg_end);
sgml('<GROUP>', \&arg_start);
sgml('</GROUP>', \&arg_end);

sgml('<OPTION>', \&bold_on);
sgml('</OPTION>', \&font_off);

# FIXME: This is one _blank_ line.
man_sgml('<SBR>', "\n\n");

```

```
#####
#
# General sections
#
#####

# The name of the section is handled by TITLE. This just sets
# up the roff markup.
man_sgml('<REFSECT1>', "\n.SH ");
man_sgml('<REFSECT2>', "\n.SS ");
man_sgml('<REFSECT3>', "\n.SS ");

#####
#
#
Titles, metadata.
#
#####

sgml('<TITLE>', sub {
  if($_[0]->in('REFERENCE') or $_[0]->in('BOOK')) {
    $write_manpages = 1;
  }
  save_cdata();
});
sgml('</TITLE>', sub {
  my $title = fold_string(pop_output());
  $raw_cdata--;

  if($_[0]->in('REFERENCE') or $_[0]->in('BOOK')) {
    # We use TITLE of enclosing Reference or Book as manual name
    $manpage_manual = $title;
    $write_manpages = 0;
  }
  elsif(exists $_[0]->parent->ext->{'title'}) {
    # By far the easiest case. Just fold the string as
    # above, and then set the parent element's variable.
    $_[0]->parent->ext->{'title'} = $title;
  }
  else {
    # If the parent element's handlers are lazy,
    # output the folded string for them :)
    # We assume they want uppercase and a newline.
    output("", uc($title), "\\n");
    $newline_last = 1;
  }
}
```

```

});

sgml('<ATtribution>', sub { push_output('string') });
sgml('</ATtribution>', sub { $_[0]->parent->ext->{'attribution'}
= pop_output(); });

# IGNORE.
sgml('<DOCINFO>', sub { push_output('nul'); });
sgml('</DOCINFO>', sub { pop_output(); });
sgml('<REFSECT1INFO>', sub { push_output('nul'); });
sgml('</REFSECT1INFO>', sub { pop_output(); });
sgml('<REFSECT2INFO>', sub { push_output('nul'); });
sgml('</REFSECT2INFO>', sub { pop_output(); });
sgml('<REFSECT3INFO>', sub { push_output('nul'); });
sgml('</REFSECT3INFO>', sub { pop_output(); });

sgml('<INDEXTERM>', sub { push_output('nul'); });
sgml('</INDEXTERM>', sub { pop_output(); });

#####
#
# Set bold on enclosed content
#
#####

sgml('<APPLICATION>', \&bold_on); sgml('</APPLICATION>', \&font_off);

sgml('<CLASSNAME>', \&bold_on); sgml('</CLASSNAME>', \&font_off);
sgml('<STRUCTNAME>', \&bold_on); sgml('</STRUCTNAME>', \&font_off);
sgml('<STRUCTFIELD>', \&bold_on); sgml('</STRUCTFIELD>', \&font_off);
sgml('<SYMBOL>',
\&bold_on); sgml('</SYMBOL>', \&font_off);
sgml('<TYPE>', \&bold_on); sgml('</TYPE>', \&font_off);

sgml('<ENVAR>', \&bold_on); sgml('</ENVAR>', \&font_off);

sgml('<FUNCTION>', \&bold_on); sgml('</FUNCTION>', \&font_off);

sgml('<EMPHASIS>', \&bold_on); sgml('</EMPHASIS>', \&font_off);

sgml('<ERRORNAME>', \&bold_on); sgml('</ERRORNAME>', \&font_off);
# ERRORTYPE

sgml('<COMMAND>', \&bold_on); sgml('</COMMAND>', \&font_off);

sgml('<GUIBUTTON>', \&bold_on); sgml('</GUIBUTTON>', \&font_off);

```

```
sgml('<GUIICON>', \&bold_on); sgml('</GUIICON>', \&font_off);
# GUILABEL
# GUIMENU
# GUIMENUITEM
# GUISUBMENU
# MENUCHOICE
# MOUSEBUTTON
```

```
sgml('<ACCEL>', \&bold_on); sgml('</ACCEL>', \&font_off);
sgml('<KEYCAP>', \&bold_on); sgml('</KEYCAP>', \&font_off);
sgml('<KEYSYM>', \&bold_on); sgml('</KEYSYM>', \&font_off);
# KEYCODE
# KEYCOMBO
# SHORTCUT
```

```
sgml('<USERINPUT>', \&bold_on); sgml('</USERINPUT>', \&font_off);
```

```
sgml('<INTERFACEDEFINITION>', \&bold_on);
sgml('</INTERFACEDEFINITION>', \&font_off);
```

```
#
May need to look at the CLASS
sgml('<SYSTEMITEM>', \&bold_on);
sgml('</SYSTEMITEM>', \&font_off);
```

```
#####
#
# Set italic on enclosed content
#
#####
```

```
sgml('<FIRSTTERM>', \&italic_on); sgml('</FIRSTTERM>', \&font_off);
```

```
sgml('<FILENAME>', \&italic_on); sgml('</FILENAME>', \&font_off);
sgml('<PARAMETER>', \&italic_on); sgml('</PARAMETER>', \&font_off);
sgml('<PROPERTY>', \&italic_on); sgml('</PROPERTY>', \&font_off);
```

```
sgml('<REPLACEABLE>', sub {
    italic_on();
    if($_[0]->in('TOKEN')) {
        # When tokenizing, follow more 'intuitive' convention
        output "<";
    }
});
```

```

sgml('</REPLACEABLE>', sub {
  if($_[0]->in("TOKEN")) {
    output ">";
  }
  font_off();
});

sgml('<CITETITLE>', \&italic_on); sgml('</CITETITLE>', \&font_off);
sgml('<FOREIGNPHRASE>', \&italic_on); sgml('</FOREIGNPHRASE>', \&font_off);

sgml('<LINEANNOTATION>', \&italic_on); sgml('</LINEANNOTATION>',
\&font_off);

```

```

#####
#
# Other 'inline' elements
#
#####

```

```

man_sgml('<EMAIL>', '<');
man_sgml('</EMAIL>', '>');
man_sgml('<OPTIONAL>', '[');
man_sgml('</OPTIONAL>', ']');

```

```

man_sgml('</TRADEMARK>', "\u\s-2TM\s+2\d");

```

```

man_sgml('<COMMENT>', "[Comment: ");
man_sgml('</COMMENT>', "]);

```

```

man_sgml('<QUOTE>', "``");
man_sgml('</QUOTE>', "''");

```

```

#man_sgml('<LITERAL>', '"');
#man_sgml('</LITERAL>', '"');

```

```

# No special presentation:

```

```

# AUTHOR

```

```

# AUTHORINITIALS

```

```

# ABBREV

```

```

# ACTION

```

```

# ACRONYM

```



```

# ALT
# CITATION
# PHRASE
# QUOTE
# WORDASWORD

# COMPUTEROUTPUT
# MARKUP
# PROMPT
# RETURNVALUE
# SGMLTAG
# TOKEN

# DATABASE
# HARDWARE
# INTERFACE
# MEDIALABEL

# There doesn't seem to be a good way to represent LITERAL in -man

#####
#
# Paragraph and paragraph-like elements
#
#####

sub
para_start {
output "\n" unless $newline_last++;

# In lists, etc., don't start paragraph with .PP since
# the indentation will be gone.

if($_[0]->parent->ext->{'nobreak'}==1) {
# Usually this is the FIRST element of
# a hanging tag, so we MUST not do a full
# paragraph break.
$_[0]->parent->ext->{'nobreak'} = 2;
} elsif($_[0]->parent->ext->{'nobreak'}==2) {
# Usually these are the NEXT elements of
# a hanging tag. If we break using a blank
# line, we're okay.
output "\n";
} else {
# Normal case. (For indented blocks too, at least
# -man isn't so braindead in this area.)

```

```

    output ".PP\n";
}
}
# Actually applies to a few other block elements as well
sub para_end {
    output "\n" unless $newline_last++;
}

sgml('<PARA>', \&para_start);
sgml('</PARA>', \&para_end);
sgml('<SIMPARA>', \&para_start);
sgml('</SIMPARA>', \&para_end);

# Nothing special, except maybe FIXME set nobreak.
sgml('<INFORMALEXAMPLE>',
    \&para_start);
sgml('</INFORMALEXAMPLE>', \&para_end);

#####
#
# Blocks using SS sections
#
#####

# FIXME: We need to consider the effects of SS
# in a hanging tag :(

# Complete with the optional-title dilemma (again).
sgml('<ABSTRACT>', sub {
    $_[0]->ext->{'title'} = 'ABSTRACT';
    output "\n" unless $newline_last++;
    push_output('string');
});
sgml('</ABSTRACT>', sub {
    my $content = pop_output();

    # As ABSTRACT is never on the same level as RefSect1,
    # this leaves us with only .SS in terms of -man macros.
    output ".SS \"", uc($_[0]->ext->{'title'}), "\"\n";

    output $content;
    output "\n" unless $newline_last++;
});

```

Ah, I needed a break. Example always has a title.

```
man_sgml('<EXAMPLE>', "\n.SS ");
```

```
sgml('</EXAMPLE>', \&para_end);
```

Same with sidebar.

```
man_sgml('<SIDEBAR>', "\n.SS ");
```

```
sgml('</SIDEBAR>', \&para_end);
```

NO title.

```
man_sgml('<HIGHLIGHTS>',
```

```
"\n.SS HIGHLIGHTS\n");
```

```
sgml('</HIGHLIGHTS>', \&para_end);
```

```
#####
```

```
#
```

```
# Indented 'Block' elements
```

```
#
```

```
#####
```

```
sub indent_block_start
```

```
{
```

```
output "\n" unless $newline_last++;
```

```
output ".sp\n.RS\n";
```

```
}
```

```
sub indent_block_end
```

```
{
```

```
output "\n" unless $newline_last++;
```

```
output ".RE\n";
```

```
}
```

This element is almost like an admonition (below),

only the default title is blank :)

```
sgml('<BLOCKQUOTE>', sub {
```

```
$_[0]->ext->{'title'} = "";
```

```
output "\n" unless $newline_last++;
```

```
push_output('string');
```

```
});
```

```
sgml('</BLOCKQUOTE>', sub {
```

```
my $content = pop_output();
```

```
indent_block_start();
```

```
if($_[0]->ext->{'title'}) {
```

```
output ".B \"", $_[0]->ext->{'title'}, ":\n\n";
```

```

}

output $content;

if($_[0]->ext->{'attribution'}) {
    output "\n" unless $newline_last++;
    # One place where roff's space-sensitivity makes sense :)
    output "\n      -- ";
    output
    $_[0]->ext->{'attribution'} . "\n";
}

indent_block_end();
});

# Set off admonitions from the rest of the text by indenting.
# FIXME: Need to check if this works inside paragraphs, not enclosing them.
sub admonition_end {
    my $content = pop_output();

    indent_block_start();

    # When the admonition is only one paragraph,
    # it looks nicer if the title was inline.
    my $num_para;
    while ($content =~ /\^\.PP/gm) { $num_para++ }
    if($num_para==1) {
        $content =~ s/\^\.PP\n//;
    }

    output ".B \"\" . $_[0]->ext->{'title'} . \"\":\n";
    output $content;

    indent_block_end();
}

sgml('<NOTE>', sub {
    # We can't see right now whether or not there is a TITLE
    # element, so we have to save the output now and add it back
    # at the end of this admonition.
    $_[0]->ext->{'title'} = 'Note';

    # Although admonition_end's indent_block_start will do this,
    # we need to synchronize the output_now_
    output "\n" unless $newline_last++;

    push_output('string');
});

```

```
sgml('</NOTE>', \&admonition_end);
```

```
#
```

```
Same as above.
```

```
sgml('<WARNING>', sub {  
  $_[0]->ext->{'title'} = 'Warning';  
  output "\n" unless $newline_last++;  
  push_output('string');  
});  
sgml('</WARNING>', \&admonition_end);
```

```
sgml('<TIP>', sub {  
  $_[0]->ext->{'title'} = 'Tip';  
  output "\n" unless $newline_last++;  
  push_output('string');  
});  
sgml('</TIP>', \&admonition_end);  
sgml('<CAUTION>', sub {  
  $_[0]->ext->{'title'} = 'Caution';  
  output "\n" unless $newline_last++;  
  push_output('string');  
});  
sgml('</CAUTION>', \&admonition_end);
```

```
sgml('<IMPORTANT>', sub {  
  $_[0]->ext->{'title'} = 'Important';  
  output "\n" unless $newline_last++;  
  push_output('string');  
});  
sgml('</IMPORTANT>', \&admonition_end);
```

```
#####  
#  
# Verbatim displays.  
#  
#####
```

```

sub verbatim_start {
    output "\n" unless $newline_last++;

    if($_[0]->parent->ext->{'nobreak'}==1) {
        # Usually this is the FIRST element of
        #
        a hanging tag, so we MUST not do a full
        # paragraph break.
        $_[0]->parent->ext->{'nobreak'} = 2;
    } else {
        output "\n";
    }

    output(".nf\n") unless $nocollapse_whitespace++;
}

sub verbatim_end {
    output "\n" unless $newline_last++;
    output(".fi\n") unless --$nocollapse_whitespace;
}

sgml('<PROGRAMLISTING>', \&verbatim_start);
sgml('</PROGRAMLISTING>', \&verbatim_end);

sgml('<SCREEN>', \&verbatim_start);
sgml('</SCREEN>', \&verbatim_end);

sgml('<LITERALLAYOUT>', \&verbatim_start);
sgml('</LITERALLAYOUT>', \&verbatim_end);

#sgml('<SYNOPSIS>', sub {
# if($_[0]->attribute('FORMAT')->value =~ /linespecific/i) {
#   &verbatim_start;
# } else {
#   roffcmd("");
# }
#});
#
#sgml('</SYNOPSIS>', sub {
# if($_[0]->attribute('FORMAT')->value =~ /linespecific/i) {
#   &verbatim_end;
# }
# else {
#   roffcmd("");# not sure about this.
# }
#});
sgml('<SYNOPSIS>', \&verbatim_start);
sgml('</SYNOPSIS>', \&verbatim_end);

```

```
#####
#
#
Lists
#
#####

# Indent nested lists.
sub indent_list_start {
  if($list_nestlevel++) {
    output "\n" unless $newline_last++;
    output ".RS\n";
  }
}
sub indent_list_end {
  if(--$list_nestlevel) {
    output "\n" unless $newline_last++;
    output ".RE\n";
  }
}

sgml('<VARIABLELIST>', \&indent_list_start);
sgml('</VARIABLELIST>', \&indent_list_end);
sgml('<ITEMIZEDLIST>', \&indent_list_start);
sgml('</ITEMIZEDLIST>', \&indent_list_end);
sgml('<ORDEREDLIST>', sub {
  indent_list_start();
  $_[0]->ext->{'count'} = 1;
});
sgml('</ORDEREDLIST>', \&indent_list_end);

# Output content on one line, bolded.
sgml('<TERM>', sub {
  output "\n" unless $newline_last++;
  output ".TP\n";
  bold_on();
  push_output('string');
});
sgml('</TERM>', sub {
```

```

my $term = pop_output();
$term =~ tr/\n/ /;
output $term;
font_off();
output "\n";
$newline_last = 1;
});

sgml('<LISTITEM>', sub {
# A bulleted list.
if($_[0]->in('ITEMIZEDLIST'))
{
output "\n" unless $newline_last++;
output ".TP 0.2i\n\\(bu\n";
}

# Need numbers.
# Assume Arabic numeration for now.
elsif($_[0]->in('ORDEREDLIST')) {
output "\n" unless $newline_last++;
output ".TP ", $_[0]->parent->ext->{'count'}++, ". \n";
}

$_[0]->ext->{'nobreak'} = 1;
});

sgml('<SIMPLELIST>', sub {
$_[0]->ext->{'first_member'} = 1;
});

sgml('<MEMBER>', sub {
my $parent = $_[0]->parent;

if($parent->attribute('TYPE')->value =~ /Inline/i) {
if($parent->ext->{'first_member'}) {
# If this is the first member don't put any commas
$parent->ext->{'first_member'} = 0;
} else {
output ", ";
}
} elsif($parent->attribute('TYPE')->value =~ /Vert/i) {
output "\n" unless $newline_last++;
output "\n";
}
});

```



```
#####
#
# Stuff we don't know how to handle (yet)
#
#####
```

Address blocks:

```
# Credit stuff:
#
ACKNO
# ADDRESS
# AFFILIATION
# ARTPAGENUMS
# ATTRIBUTION
# AUTHORBLURB
# AUTHORGROUP
# OTHERCREDIT
# HONORIFIC
```

```
# Areas:
# AREA
# AREASET
# AREASPEC
```

```
#####
#
# Linkage, cross references
#
#####
```

```
# Print the URL
sgml('</ULINK>', sub {
# output ' <URL:', $_[0]->attribute('URL')->value, '>';
$newline_last = 0;
});
```

```
# If cross reference target is a RefEntry,
# output CiteRefEntry-style references.
sgml('<XREF>', sub {
my $id = $_[0]->attribute('LINKEND')->value;
my $manref = $Refs->get("refentry:$id");
```

```

if($manref) {
  my ($title, $sect) = ($manref =~ /(.*)(\(.*\))/);
  bold_on();
  output $title;
  font_off();
  output $sect;
} else {
  $blank_xrefs++ if $write_manpages;
  output "[XRef to $id]";
}

$newline_last = 0;
});

# Anchor

#####
#
# Other handlers
#
#####

man_sgml('['lt
    ']', '<');
man_sgml('['gt  ']', '>');
man_sgml('['amp  ']', '&');

#
# Default handlers (uncomment these if needed). Right now, these are set
# up to gag on any unrecognised elements, sdata, processing-instructions,
# or entities.
#
# sgml('start_element',sub { die "Unknown element: " . $_[0]->name; });
# sgml('end_element',"");

# This is for weeding out and escaping certain characters.
# This looks like it's inefficient since it's done on every line, but
# in reality, SGMLSpm and sgmlspl parsing ESIS takes _much_ longer.

sgml('cdata', sub
{
  if(!$write_manpages) { return; }
  elsif($raw_cdata) { output $_[0]; return; }

```


1;

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* /iputils-s20101006-tar-gz/iputils-s20101006/doc/docbook2man-spec.pl

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*

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

*/

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* tracepath.c

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* 2 of the License, or (at your option) any later version.
*
* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
*/

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```

*/
/*
* 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.
*/

```

Found in path(s):

```

* /iputils-s20101006-tar-gz/iputils-s20101006/ping.c
* /iputils-s20101006-tar-gz/iputils-s20101006/ping6.c

```

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```

* /iputils-s20101006-tar-gz/iputils-s20101006/doc/clockdiff.sgml
* /iputils-s20101006-tar-gz/iputils-s20101006/doc/tracepath.sgml
* /iputils-s20101006-tar-gz/iputils-s20101006/doc/arping.sgml
* /iputils-s20101006-tar-gz/iputils-s20101006/doc/rarpd.sgml
* /iputils-s20101006-tar-gz/iputils-s20101006/doc/traceroute6.sgml
* /iputils-s20101006-tar-gz/iputils-s20101006/doc/pg3.sgml

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- * /iputils-s20101006-tar-gz/iputils-s20101006/tftpsubs.c

1.78 tftp-hpa 5.2

1.78.1 Available under license :

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* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.c
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```

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```

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*

```

```

/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/main.c
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.c

```

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*
* ----- */

```

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```

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.h
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.c

```

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Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp_wrappers-devel

BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for

booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}

mkdir -p \${RPM_BUILD_ROOT}%{_bindir}

mkdir -p \${RPM_BUILD_ROOT}%{_mandir}/man{1,8}

mkdir -p \${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=\${RPM_BUILD_ROOT} \

SBINDIR=%{_sbindir} MANDIR=%{_mandir} \

install

install -m755 -d \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ \${RPM_BUILD_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server

/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server

if [\$1 = 0]; then

/sbin/service xinetd reload > /dev/null 2>&1 || :

fi

%clean

```
rm -rf ${RPM_BUILD_ROOT}
```

```
%files
```

```
%defattr(-,root,root)
```

```
%{_bindir}/tftp
```

```
%{_mandir}/man1/*
```

```
%files
```

```
server
```

```
%defattr(-,root,root)
```

```
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
```

```
%dir /tftpboot
```

```
%{_sbindir}/in.tftpd
```

```
%{_mandir}/man8/*
```

```
%changelog
```

```
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
```

```
- removed completely broken "Malta" patch.
```

```
- integrated into build machinery so rpm -ta works.
```

```
* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
```

```
- 0.33
```

```
- Add /tftpboot directory (#88204)
```

```
* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
```

```
- add BuildPreReq on tcp_wrappers
```

```
* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
```

```
- rebuilt
```

```
* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
```

```
- Update to 0.32
```

```
* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
```

```
- Fix #55789
```

```
- Update to 0.30
```

```
* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
```

```
- Try applying HJ's patch from #65476
```

- * Fri Jun
21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

- * Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update
to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).
- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.
- * Wed Aug 23 2000
 - Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled
- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
 - correct group.
- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
 - change user from root to nobody
- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).
- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
 - cook up an xinetd config file for tftpd
- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild
- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.
- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.
- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description
- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
 - compress man pages (again).
- * Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
 - man pages are compressed
 - fix description and summary

- * Tue
Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server
- * Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.
- * Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.
- * Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)
- * Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)
- * Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.
- * Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root
- * Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr
- * Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure
- * Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec

No license file was found, but licenses were detected in source scan.

```

/* *- c *- ----- *
*
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */

```

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/config.h

No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp_wrappers-devel

BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}

mkdir -p \${RPM_BUILD_ROOT}%{_bindir}

mkdir -p \${RPM_BUILD_ROOT}%{_mandir}/man{1,8}

mkdir -p \${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=\${RPM_BUILD_ROOT} \

```

SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>

```


- add BuildPreReq on tcp_wrappers

- * Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

- * Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

- *
- Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

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- don't let configure to guess compiler, it can pick up egcs

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- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)

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- added "-l" flag to hpa-tftpd for file-logging (#26467)

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- startup as root with chroot to /tftpboot with early reversion to nobody
is preferable to starting as nobody w/o ability to chroot.

- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug

23 2000 Nalin Dahyabhai <nalin@redhat.com>

- default to being disabled

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- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>

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- add server_args (#14003).

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- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>

- FHS packaging.

- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

*

Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
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* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
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- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec.in

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```
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*
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* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.h

No license file was found, but licenses were detected in source scan.

```
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.\" notice, this list of conditions and the following disclaimer.
.\" 2. Redistributions in binary form must reproduce the above copyright
.\" notice, this list of conditions and the following disclaimer in the
.\" documentation and/or other materials provided with the distribution.
.\" 3. Neither the name of the University nor the names of its contributors
.\" without specific prior written permission.
```

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.8.in

No license file was found, but licenses were detected in source scan.

```
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.\" notice, this list of conditions and the following disclaimer in the
.\" documentation and/or other materials provided with the distribution.
.\" 3. Neither the name of the University nor the names of its contributors
.\" without specific prior written permission.
```

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.1.in

No license file was found, but licenses were detected in source scan.

```
## Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
## This program is free software available under the same license
```

Found in path(s):

```
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/MCONFIG.in
```

No license file was found, but licenses were detected in source scan.

```
/* ----- *
*
* Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

```
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.h
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.c
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/misc.c
```

No license file was found, but licenses were detected in source scan.

```
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* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/extern.h
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.h

1.79 pam 0.85.1

1.79.1 Available under license :

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Version 2.0, January 2004
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1.80 pciutils 3.4.0

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```
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```

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```
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```

```
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1.81 e2fsprogs 1.45.5

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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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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD_LIB) \$(LDFLAGS_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD_LIB) .

\$(RM) -f ../\$(BSD_LIB)

(cd ..; \$(LN) \$(LINK_BUILD_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;`/\$(BSD_LIB) \$(BSD_LIB))

install-shlibs install:: \$(BSD_LIB)

@echo " INSTALL_PROGRAM \$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)"

@\$(INSTALL_PROGRAM) \$(BSD_LIB) \

\$(DESTDIR)\$ (BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
- trivial database library - private includes
-
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Gadi Oxman, August 1995

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```
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```

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```
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```

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

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Theodore Ts'o

23-June-2007

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```

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

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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

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

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1.82 zlib 1.2.3

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1.83 re2 3.10

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1.84 u-boot 2018.03

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-- Wolfgang Denk

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*
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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.89 net-snmp 5.9.4.pre2

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1.91 python 3.10.13

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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1.94 makedumpfile 1.6.9

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1.95 dmalloc 5.5.2

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```
/* close the connection with the client */
close_connection();
}
...
}
```

Usually you would set the mark after the initializations and before each transaction is processed. Then for each transaction you can use `dmalloc\_log\_changed` to show the unfreed memory. *Note Extensions::.

7. You can also use the `dmalloc\_log\_stats` function to dump general information about the heap. Also, remember that you can use the `dmalloc\_message` and `dmalloc\_vmessage` routines to annotate the dmalloc logfile with details to help you debug memory problems. *Note Extensions::.

File: dmalloc.info, Node: Logfile Details, Next: Other Hints, Prev: Debugging A Server, Up: Programming

3.13 Explanation of the Logfile Output

=====

Most of time you will be using the logfile output from library as the sole information source for diagnosing problems in and getting statistics for your program.

```
1098918225:
3: Dmalloc version 'Version 5.5.2'
1098918225: 3: flags = 0x4f4e503, logfile '/tmp/dmalloc.log'
1098918225: 3: interval = 500, addr = 0, seen # = 0, limit = 0
1098918225: 3: starting time = 1098918225
```

```

1098918225: 3: process pid = 32406
1098918226: 4: WARNING: tried to free(0) from foo.c:708'
1098918228: 20: *** free: at 'unknown' pnt '0xed310080|s2': \
size 12, allocated at 'bar.c:102'
1098918230: 50: ERROR: heap_check: free space was overwritten (err 67)
1098918230: 50: error details: checking free pointer
1098918230: 50: pointer '0x291c5' from 'unknown' prev access 'foo.c:787'

```

Here is a short example of some logfile information. Each of the lines are prefixed by the time (in epoch seconds since 1/1/1970) and the iteration or call count which is the number of times the library has been called from malloc, free, verify, etc.. In the above example, the first 5 log entries were written at epoch 1098918225 or 'Wed Oct 27 19:03:45 2004 EST' and they were generated by the 3rd call to the library.

See the 'settings.dist' file entries to tune what elements appear on each line: LOG_TIME_NUMBER, LOG_ITERATION, LOG_PID, etc.. You can convert the epoch seconds to a date from the command line with the following perl code: ``perl -e 'print localtime($ARGV[0])."\n";' epoch-seconds-number``

The first 5 lines of the sample logfile contain header information for all logfiles. They show the version number and URL for the library as well as all of the settings that the library is currently using. These settings are tuned using the dmalloc utility program. *Note Dmalloc Program::. The 5th line of is the process-id that generated the logfile.

The 6th line in the above example is what causes the logfile to be opened and the header to be written. It is a warning that tells you that you tried to free a 0L pointer at a certain location. You can disable these warnings by setting 'ALLOW_FREE_NULL_MESSAGE' to 0 in 'settings.dist'.

Line 7 is an example of a transaction log that you get when you enable the 'log-trans' debug token. *Note Debug Tokens::. This line shows that a call to free was made from an unknown location. It is unknown because the file in question did not include 'dmalloc.h' to get file/line-number information. The call to free was freeing the pointer address '0xed310080' which we have "seen" 2 times (s2). We saw the pointer when it was allocated and then we are seeing it again when it was freed. Because the library is reusing pointers (reclaiming freed memory) the seen count helps to track how many times a pointer was used. The last part of the line shows that the pointer to be freed was allocated by 'bar.c' line 102.

Lines 8-10 is the next problem that the library caught and this one

is an error. It happened 5 seconds from the start of the log (1098918230) and at the 50th call into the library. It shows that an allocation that had been freed then was overwritten. This may imply that someone tried to use memory after it was freed or that there was a loose pointer reference. The last two lines give more details about when the error was discovered, the address of the offending pointer, and when the pointer was previous accessed, in this case freed. To discover where this problem is happening, you can use a debugger.
*Note Using With a Debugger::.

File: [dmalloc.info](#), Node: [Other Hints](#), Prev: [Logfile Details](#), Up: [Programming](#)

3.14 Various Other Hints That May Help

=====

One of the problems that is often seen is that a program crashes in the 'libc' memory code and you suspect a heap memory problem but both dmalloc and maybe valgrind don't show any problems. One of the big problems with debugging is that it is very difficult to do it without effecting how the program is run. Sometimes errors are due to subtle race conditions that are only seen when the program is running at full speed - not slowed down by debugging code.

This is especially true with threaded code which is often heavily affected when used with dmalloc and valgrind. Older versions of valgrid (maybe current) forced all threads into a single virtual system by design, which often masks reentrance bugs.

One way to work through these issues is to run with the library with very few debugging flags enabled. Many memory problems are fence-post areas so start with dmalloc checking just the fence post and error logging enabled:

```
dmalloc -d 0 -l dmalloc.log -p log-stats -p log-non-free -p check-fence -p check-funcs
```

This enabled a small number of checks and should cause your program to run at close to full speed. The library has never been optimized for speed so some performance penalties will be felt.

File: [dmalloc.info](#), Node: [Dmalloc Program](#), Next: [Source Code](#), Prev: [Programming](#), Up: [Top](#)

4 Dmalloc Utility Program

The dmalloc program is designed to assist in the setting of the environment variable `DMALLOC\_OPTIONS'. \*Note Environment Variable::. It is designed to print the shell commands necessary to make the appropriate changes to the environment. Unfortunately, it cannot make the changes on its own so the output from dmalloc should be sent through the `eval' shell command which will do the commands.

* Menu:

- * Shell Alias:: Using a shell alias with the utility.
- * Utility Usage:: How to use the dmalloc program.
- * Environment Variable:: Environment variable name and features.
- * Debug Tokens:: Description of the debugging tokens.
- * RC File:: Format of the runtime configuration file.

File: dmalloc.info, Node: Shell Alias, Next: Utility Usage, Prev: Dmalloc Program, Up: Dmalloc Program

4.1 Using a Shell Alias with the Utility

=====

The dmalloc program is designed to assist in the setting of the environment variable `DMALLOC\_OPTIONS'. \*Note Environment Variable::. It is designed to print the shell commands necessary to make the appropriate changes to the environment. Unfortunately, it cannot make the changes on its own so the output from dmalloc should be sent through the `eval' shell command which will do the commands.

With shells that have aliasing or macro capabilities: csh, bash, ksh, tcsh, zsh, etc., setting up an alias to dmalloc to do the eval call is recommended. Bash, ksh, and zsh users should add the following to their `.bashrc', `.profile', or `.zshrc' file respectively (notice the `-b' option for bourne shell output):

```
function dmalloc { eval `command dmalloc -b $*`; }
```

If your shell does not support the `command' function then try:

```
function dmalloc { eval `dmalloc -b $*`; }  
or  
function dmalloc { eval `usr/local/bin/dmalloc -b $*`; }
```

If you are still using csh or tcsh, you should add the following to your `.cshrc' file (notice the `-C' option for c-shell output):

```
alias dmalloc 'eval `dmalloc -C \!*`'
```


This allows the user to execute the dmalloc command as `dmalloc arguments'.

Users of versions

of the Bourne shell (usually known as /bin/sh) that don't have command functions will need to send the output to a temporary file and then read it back in with the "." command:

```
$ dmalloc -b arguments ... > /tmp/out
$ ./tmp/out
```

By the way, if you are looking for a shell, I heartily recommend trying out zsh. It is a bourne shell written from scratch with much the same features as tcsh without the csh crap.

NOTE: After you add the alias to the file you need to log out and log back in to have it take effect, or you can execute the above appropriate command on the command line. If you enter `dmalloc runtime' and see any output with DMALLOC_OPTIONS in it then the alias did not work.

File: dmalloc.info, Node: Utility Usage, Next: Environment Variable, Prev: Shell Alias, Up: Dmalloc Program

4.2 How to Use the Dmalloc Program

=====

The most basic usage for the program is `dmalloc [-bC] tag'. The `-b' or `-C' (either but not both flags used at a time) are for generating Bourne or C shell type commands respectively. dmalloc will try and use the `SHELL' environment variable to determine whether bourne or C shell commands should be generated but you may want to explicitly specify the correct flag.

The `tag' argument to dmalloc should match a line from the user's runtime configuration file or should be one of the built-in tags.

*Note RC File:: If no tag is specified and no other option-commands used, dmalloc will display the current settings of the environment variable. It is useful to specify one of the verbose options when doing this.

To find out the usage for the debug malloc program try `dmalloc --usage-long'. The standardized usage message that will be displayed is one of the many features of the argv library included with this package.

It is available on the web at URL ``http://256.com/sources/argv'`.

See the documentation there for more information.

Here is a detailed list of the flags that can be passed to dmalloc:

``-a`

`address'`

Set the ``addr'` part of the ``DMALLOC_OPTIONS'` variable to address (or alternatively `address:number`).

``-b'`

Output Bourne shell type commands. Usually handled automatically.

``-C'`

Output C shell type commands. Usually handled automatically.

``-c'`

Clear/unset all of the settings not specified with other arguments. You can do this automatically when you set to a new tag with the ``-r'` option.

`_NOTE_`: clear will never unset the ``debug'` setting. Use ``-d 0'` or a tag to ``none'` to achieve this.

``-d bitmask'`

Set the ``debug'` part of the ``DMALLOC_OPTIONS'` env variable to the bitmask value which should be in hex. This is overridden (and unnecessary) if a tag is specified.

``-D'`

List all of the debug-tokens. Useful for finding a token to be used with the ``-p'` or ``-m'` options. Use with ``-v'` or ``-V'` verbose options.

``-e errno'`

Print the dmalloc error string that corresponds to the error number `errno`.

``-f filename'`

Use this configuration file instead of the RC file ``$HOME/.dmallocrc'`.

``-g'`

Output

gdb type commands for using inside of the gdb debugger.

``-h (or --help)'`

Output a help message for the utility.

``-i number'`

Set the checking interval to number. If the ``check-heap'` token is enabled, this causes the library to only check the heap every Nth time which can significantly increase the running speed of your program. If a problem is found, however, this limits your ability to determine when the problem occurred. Try values of 50 or 100 initially.

``-k'`

Do not reset all of the settings when a tag is specified. This specifically overrides the ``-r'` option and is provided here to override ``-r'` if it has been added to the `dmalloc` alias.

``-l filename'`

Write the debugging output and other log-file information to the filename. Filename can include some of the following patterns which get expanded into strings:

``%h'`

Gets expanded into the hostname if the ``gethostname()'` function is available.

``%i'`

Gets expanded into the thread-id if the library has been configured to be used with threads. *Note Using With Threads:.. See the end of the ``settings.dist'` file for settings which return the thread-id and convert it into a string.

``%p'`

Gets expanded into the process-id if the ``getpid()'` function is available.

``%t'`

Gets expanded into the time value in seconds if the ``time()'` function is available.

``%u'`

Gets expanded into the user-id number if the ``getuid()'` function is available.

Some examples:

logfile produced with pid extension:

logfile.8412 or logfile.31451

`dmalloc -l logfile.%p`

hostname and time extensions:
dmalloc-box1.foo.com-1055213240
dmalloc -l dmalloc-%h-%t

if threads enabled, have thread-id extension: log.thread32
dmalloc -l log.thread%i

``-L'`

Write the debug-value into the environment not in hex but by individual debug-tokens in long form.

``-m token(s)'`

Remove (minus) the debug capabilities of token(s) from the current debug setting or from the selected tag (or ``-d'` value). Multiple ``-m'` options can be specified.

``-M`

limit'

Set the memory allocation limit which will abort the program if the total memory allocations exceed this number of bytes. The limit can be a number with a k, m, or g at the end to indicate kilobyte, megabyte, and gigabyte respectively. Ex: 100k, 200m, 1g. If the limit is exceeded, this will generate an ``ERROR_OVER_LIMIT'` error.

*Note Error Codes::.

``-n'`

Without changing the environment, output the commands resulting from the supplied options.

``-o times'`

Set the "lock-on" period which dictates to the threaded version of the library to not initialize or lock the mutex lock around the library until after a certain number of allocation calls have been made. Some number between 2 and 30 is probably good. See the "Using With Threads" section for more information about the operation of the library with threads. *Note Using With Threads::.

``-p token(s)'`

Add (plus) the debug capabilities of token(s) to the current debug setting or to the selected tag (or ``-d'` value).

Multiple ``-p'` options can be specified.

``-r'`

Remove (unset) all settings when using a tag. This is useful when you are returning to a standard development tag and want the logfile, address, and interval settings to be cleared

automatically. If you want this behavior by default, this can be put into the `dmalloc` alias.

``-R'`

Output rc shell type commands. This is not for the runtime configuration file but for the rc shell program.

``-s file:line'`

Set the ``start'` part of the ``DMALLOC_OPTIONS'` env variable to a file-name and line-number location in the source where the library should begin more extensive heap checking. The file and line numbers for heap transactions must be working for this option to be obeyed. This is used if you are trying to locate a problem and you want the extensive checking to not happen initially because it's too slow.

``-S number'`

Set the ``start'` part of the ``DMALLOC_OPTIONS'` env variable to an `dmalloc` mark number. The library will begin more extensive heap checking after this number of memory transactions. If you ``LOG_ITERATION'` enabled in your ``settings.h'` file then the entries in the log file will be prepended with the number of memory transactions that the library has handled so far. This number can be used to delay the start of the fine grained heap checking which can be very slow.

``--start-size size'`

Set the ``start'` part of the ``DMALLOC_OPTIONS'` env variable to a number of bytes. The library will begin more extensive heap checking after this amount of memory has been allocated by the library. This allows you to start the slow and detailed checking of the library later in the program execution. You can use patterns like 250m, 1g, or 102k to mean 250 megabytes, 1 gigabyte, and 102 kilobytes respectively.

``-t'`

List all of the tags in the rc-file. Use with ``-v'` or ``-V'` verbose options.

``-u (or --usage)'`

Output the usage information for the utility.

``-v'`

Give verbose output. Especially useful when dumping current settings or listing all of the tags.

`-V'

Give very verbose output for outputting even more details about settings.

`--version'

Output the version string for the utility. Please note that the version of the library that is installed or has been linked into your application may be different from the utility version.

If no arguments are specified, dmalloc dumps out the current settings that you have for the environment variable. For example:

```
Debug-Flags '0x40005c7' (runtime)
Address    0x1f008, count = 3
Interval   100
Logpath     'malloc'
Start-File  not-set
```

With a -v option and no arguments, dmalloc dumps out the current settings in a verbose manner. For example:

```
Debug-Flags '0x40005c7' (runtime)
log-stats, log-non-free, log-bad-space, check-fence, catch-null
Address    0x1f008, count = 10
Interval   100
Logpath     'malloc'
Start-File  not-set
```

Here are some examples of dmalloc usage:

```
# start tough debugging, check the heap every 100 times,
# send the log information
# to file 'logfile'
dmalloc high -i 100 -l logfile
```

```
# find out what error code 20 is (from the logfile)
dmalloc -e 20
```

```
# cause the library to halt itself when it sees the address 0x34238
# for the 6th time.
dmalloc -a 0x34238:6
```

```
# send the log information to file 'logfile' with the time in seconds
# as an extension.
dmalloc -l logfile.%t
```

```
# return to the normal 'runtime' settings and clear out all
```

```
# other settings
dmalloc -c runtime
```

```
# enable basic 'low' settings plus (-p) the logging of
# transactions (log-trans) to file 'logfile'
dmalloc low -p log-trans -l logfile
```

```
# print out the current settings with Very-verbose output
dmalloc -V
```

```
# list the available debug malloc tokens with Very-verbose output
dmalloc -DV
```

```
# list the available tags from the rc file with verbose output
dmalloc -tv
```

File: dmalloc.info, Node: Environment Variable, Next: Debug Tokens, Prev: Utility Usage, Up: Dmalloc Program

4.3 Environment Variable Name and Features

=====

An

"environment variable" is a variable that is part of the user's working environment and is shared by all the programs. The `DMALLOC\_OPTIONS' variable is used by the dmalloc library to enable or disable the memory debugging features, at runtime. \_NOTE:\_ you can also use the `dmalloc_debug_setup' function to set the option string. It can be set either by hand or with the help of the dmalloc program. *Note Dmalloc Program::.

To set it by hand, Bourne shell (sh, bash, ksh, or zsh) users should use:

```
DMALLOC_OPTIONS=value
export DMALLOC_OPTIONS
```

C shell (csh or tcsh) users need to invoke:

```
setenv DMALLOC_OPTIONS value
```

The value in the above examples is a comma separated list of tokens each having a corresponding value. The tokens are described below:

`debug'

This should be set to a value in hexadecimal which corresponds to the functionality token values added together. *Note Debug Tokens::. For instance, if the user wanted to enable the logging

of memory transactions (value ``0x008'`) and wanted to check fence-post memory (value ``0x400'`) then ``debug'` should be set to ``0x408' (`0x008' + `0x400')`.

`_NOTE_`: You don't have to worry about remembering all the hex values of the tokens because the `dmalloc` program automates the setting of this variable especially.

`_NOTE_`: You can also specify the debug tokens directly, separated by commas. *Note Debug Tokens::. If ``debug'` and the tokens are both used, the token values will be added to the debug value.

``lockon'`

Set this to a number which is the "lock-on" period. This dictates to the threaded version of the library to not initialize or lock the mutex lock around the library until after a certain number of allocation calls have been made. See the "Using With Threads" section for more information about the operation of the library with threads. *Note Using With Threads::.

``log'`

Set this to a filename so that if ``debug'` has logging enabled, the library can log transactions, administration information, and/or errors to the file so memory problems and usage can be tracked.

To get different logfiles for different processes, you can assign ``log'` to a string with ``%d'` in it (for instance ``logfile.%d'`). This will be replaced with the pid of the running process (for instance ``logfile.2451'`).

`_WARNING_`: it is easy to core dump any program with `dmalloc`, if you send in a format with arguments other than the one ``%d'`.

``addr'`

When this is set to a hex address (taken from the `dmalloc` log-file for instance) `dmalloc` will abort when it finds itself either allocating or freeing that address.

The address can also have an ``:number'` argument. For instance, if it was set it to ``0x3e45:10'`, the library will kill itself the 10th time it sees address ``0x3e45'`. By setting the number argument to 0, the program will never stop when it sees the address. This is useful for logging all activity on the address and makes it easier to track down specific addresses not being freed.

This works well in conjunction with the ``STORE_SEEN_COUNT'`

option.

*Note Memory Leaks::.

`_NOTE_`: `dmalloc` will also log all activity on this address along with a count.

``inter'`

By setting this to a number `X`, `dmalloc` will only check the heap every `X` times. This means a number of debugging features can be enabled while still running the program within a finite amount of time.

A setting of ``100'` works well with reasonably memory intensive programs. This of course means that the library will not catch errors exactly when they happen but possibly 100 library calls later.

``start'`

Set this to a number `X` and `dmalloc` will begin checking the heap after `X` times. This means the intensive debugging can be started after a certain point in a program.

``start'` also has the format ``file:line'`. For instance, if it is set to ``dmalloc_t.c:126'` `dmalloc` will start checking the heap after it sees a `dmalloc` call from the ``dmalloc_t.c'` file, line number 126. If you use ``dmalloc_t.c:0'`, with a 0 line number, then `dmalloc` will start checking the heap after it sees a call from anywhere in the ``dmalloc_t.c'` file.

This allows the intensive debugging to be started after a certain routine or file has been reached in the program.

Some examples are:

```
# turn on transaction and stats logging and set
# 'logfile' as the log-file
setenv DMALLOC_OPTIONS log-trans,log-stats,log=logfile

# enable debug flags 0x1f as well as heap-checking and
# set the interval to be 100
setenv DMALLOC_OPTIONS debug=0x1f,check-heap,inter=100

# enable 'logfile' as the log-file, watch for
# address '0x1234', and start checking when we see
# file.c line 123
setenv DMALLOC_OPTIONS log=logfile,addr=0x1234,start=file.c:123
```

4.4 Description of the Debugging Tokens

=====

The below tokens and their corresponding descriptions are for the setting of the debug library setting in the environment variable.

*Note Environment Variable::

They should be specified in the user's

`dmallocrc' file. *Note RC File::

Each token, when specified, enables a specific debugging feature. For instance, if you have the `log-stats' token enabled, the library will log general statistics to the logfile.

To get this information on the fly, use `dmalloc -DV'. This will print out the Debug tokens in Very-verbose mode. *Note Dmalloc Program::

`none'

No debugging functionality

`log-stats'

Log general statistics when `dmalloc_shutdown` or `dmalloc_log_stats` is called.

`log-non-free'

Log non-freed memory pointers when `dmalloc_shutdown` or `dmalloc_log_unfreed` is called.

`log-known'

Log only known memory pointers that have not been freed. Pointers which do not have file/line or return-address information will not be logged.

`log-trans'

Log general memory transactions (quite verbose).

`log-admin'

Log administrative information (quite verbose).

`log-bad-space'

Log actual bytes in and around bad pointers.

`log-nonfree-space'

Log

actual bytes in non-freed pointers.

``log-elapsed-time'`

Log elapsed-time for allocated pointers (see ``conf.h'`).

``log-current-time'`

Log current-time for allocated pointers (see ``conf.h'`).

``check-fence'`

Check fence-post memory areas.

``check-heap'`

Verify heap administrative structure.

``check-blank'`

Check to see if space that was blanked when a pointer was allocated or when it was freed has been overwritten. If this is enabled then it will enable ``free-blank'` and ``alloc-blank'` automatically.

``check-funcs'`

Check the arguments of some functions (mostly string operations) looking for bad pointers.

``check-shutdown'`

Check all of the pointers in the heap when the program exits.

``catch-signals'`

Shutdown the library automatically on SIGHUP, SIGINT, or SIGTERM. This will cause the library to dump its statistics (if requested) when you press control-c on the program (for example).

``realloc-copy'`

Always copy data to a new pointer when realloc.

``free-blank'`

Write special "dmalloc-free" byte (hexadecimal ``0xdf'`, octal ``0337'`, decimal ``223'`) into space when it is freed. You can set this to be something else in the ``settings.dist'` file. This ensures that your program is not using memory after it has been freed. You can check to see if areas have been improperly overwritten with the ``check-blank'` token. If the free space has been overwritten, then ``ERROR_FREE_OVERWRITTEN'` is triggered.
*Note Error Codes::.

``error-abort'`

Abort the program (and dump core) on errors. See ``error-dump'`

below. *Note Dumping Core::.

``alloc-blank'`

Write special "dmalloc-alloc" byte (hexadecimal ``0xda'`, octal ``0332'`, decimal ``218'`) into space when it is allocated. You can set this to be something else in the ``settings.dist'` file. If you are not using ``calloc'` this will overwrite the user space with the special bytes ensuring that your program is initializing its dynamic memory appropriately. Also, if you ask for 35 bytes and the library has to give you a block of 64 because of rounding issues, it will overwrite the extra memory with the special byte. You can then check to see if the extra areas have been improperly overwritten by enabling the ``check-blank'` token.

``print-messages'`

Log any errors and messages to the screen via standard-error.

``catch-null'`

Abort the program immediately if the library fails to get more heap space from the heap allocation routine ``mmap'` or ``sbrk'`.

``never-reuse'`

Have the heap never use space that has been used before and freed.

*Note Memory Leaks::. `_WARNING_`: This should be used with caution since you may run out of heap space.

``error-dump'`

Dump core on error and then continue. Later core dumps overwrite earlier ones if the program encounters more than one error. See ``error-abort'` above. *Note Dumping Core::.

`_NOTE_`: This will only work if your system supports the ``fork'` system call and the configuration utility was able to fork without going recursive.

``error-free-null'`

By default the library will not generate an error when a program tries

to free a NULL pointer. By enabling this token, you can change this behavior so an error is reported. See also the `ALLOW_FREE_NULL` and `ALLOW_FREE_NULL_MESSAGE` settings in the ``settings.h'` file to change the default behavior.

File: dmalloc.info, Node: RC File, Prev: Debug Tokens, Up: Dmalloc Program

4.5 Format of the Runtime Configuration File

=====

By using a "RC File" (or runtime configuration file) you can alias tags to combinations of debug tokens. *Note Debug Tokens::.

NOTE: For beginning users, the dmalloc program has a couple of tags built into it so it is not necessary for you to setup a RC file:

``runtime'`

Enables basic runtime tests including fence-post checking, null handling, and logging of any errors.

``low'`

Runtime settings plus minimal checking of heap structures and overwriting of allocated and freed space.

``medium'`

Low settings plus checking of all heap structures on each memory call, always relocates block on realloc, and aborts on errors.

You may want to use ``-i'` option to the dmalloc utility. *Note Dmalloc Program::.

``high'`

Medium settings plus checking of overwritten freed and allocated memory and checking of arguments to a number of common functions.

You may want to use ``-i'` option to the dmalloc utility. *Note Dmalloc Program::.

For expert users, a sample ``dmallocrc'` file has been provided but you are encouraged to roll your own combinations. The name of default rc-file is ``$HOME/.dmallocrc'`. The ``$HOME'` environment variable should be set by the system to point to your home-directory.

The file should contain lines in the general form of:

tag token1, token2, ...

``tag'` is to be matched with the tag argument passed to the dmalloc program, while ``token1, token2, ...'` are debug capability tokens.

*Note Dmalloc Program::, *Note Debug Tokens::.

A line can be finished with a ``\'` meaning it continues onto the next line. Lines beginning with ``#'` are treated as comments and are ignored along with empty lines.

Here is an example of a '.dmallocrc' file:

```
#
# Dmalloc runtime configuration file for the debug malloc library
#

# no debugging
none none

# basic debugging
debug1 log-stats, log-non-free, check-fence

# more logging and some heap checking
debug2 log-stats, log-non-free, log-trans, \
check-fence, check-heap, error-abort

# good utilities
debug3 log-stats, log-non-free, log-trans, \
log-admin, check-fence, check-heap, realloc-copy, \
free-blank, error-abort

...
```

For example, with the above file installed, you can type 'dmalloc debug1' after setting up your shell alias. *Note Dmalloc Program::. This enables the logging of statistics, the logging of non-freed memory, and the checking of fence-post memory areas.

Enter 'dmalloc none' to disable all memory debugging features.

File: dmalloc.info, Node: Source Code, Next: Troubleshooting, Prev: Dmalloc Program, Up: Top

5 Information on the Source Code

* Menu:

*

- Definitions:: Definition of terms and other information.
- * Compatibility:: General compatibility concerns.
- * Portability:: Issues important for porting the library.

File: dmalloc.info, Node: Definitions, Next: Compatibility, Prev: Source Code, Up: Source Code

5.1 Definition of Terms and other Information

=====

Here are a couple definitions and other information for those interested in "picking the brain" of the library. The code is a little ugly here and there and it conforms to the Gray-Watson handbook of coding standards only.

"bblock"

basic block containing $2^{\text{BASIC\_BLOCK}}$ bytes of info

"bblock_adm"

administration for a set of basic blocks

"dblock"

divided block containing some base 2 number of blocks smaller than a basic block.

"dblock_adm"

administration for a set of divided blocks

"chunk"

some anonymous amount of memory

For more information about administration structures,
see the code
and comments from ``chunk_loc.h'`.

File: dmalloc.info, Node: Compatibility, Next: Portability, Prev: Definitions, Up: Source Code

5.2 General Compatibility Concerns

=====

* `Realloc()` backwards compatibility with being able to `realloc` from the last freed block is `_not_` supported. The author is interested to know who is using this (cough, cough) feature and for what reason.

* `Realloc()` of a `NULL` pointer is supported in which case the library will just make a call to `malloc()`. This can be disabled with the help of the ``ALLOW_REALLOC_NULL'` manual compilation option in the ``settings.h'` file to adjust the library's default behavior.

* Some systems allow `free(0)` to not be an error for some reason. Since 0 is not a valid address returned by the `malloc` call, it is debatable that this should be allowed. See ``settings.h'` for the ``ALLOW_FREE_NULL'` manual compilation option to adjust the library's default behavior.

* Aside from possibly being slower than the system's memory allocation functions, the library should be fully compatible with the standard memory routines. If this is `_not_` the case, please bring this to my attention.

File: [dmalloc.info](#), Node: [Portability](#), Prev: [Compatibility](#), Up: [Source Code](#)

5.3 Issues Important for Porting the Library

=====

General portability issues center around:

* `mmap`, `sbrk`, or compatible function usages. The library does support a preallocated memory chunk heap. See the ``INTERNAL_MEMORY_SPACE'` define in the ``settings.dist'` file.

* The locating of the caller's address from the `dmalloc` functions. This is useful in locating problems from `dmalloc` functions called from C files which did not include ``dmalloc.h'`: C library calls for instance.

See ``return.h'` for the available architecture/compiler combinations. You may want to examine the assembly code from gcc (GNU's superior c-compiler) version 2+ being run on the following code. It should give you a good start on building a hack for your box.

```
static char * x;
```

```
a()
{
  x = __builtin_return_address(0);
}
```

```
main()
{
  a();
}
```

6 Some Solutions to Common Problems

This section provides some answers to some common problems and questions. Please send me mail with any additions to this list - either problems you are still having or tips that you would like to pass on.

When diagnosing a problem, if possible, always make sure you are running the most up to date version of Dmalloc available from the home page at URL ``http://dmalloc.com/'`. Problems are often fixed and a new release can be published before people encounter them.

``Why does my program run so slow?'`

This library has never been (and maybe never will be) optimized for space nor speed. Some of its features make it unable to use some of the organizational methods of other more efficient heap libraries.

If you

have the ``check-heap'` token enabled, your program might run slow or seem to hang. This is because by default, the library will run a full check of the heap with every memory allocation or free. You can have the library check itself less frequently by using the ``-i'` option to the `dmalloc` utility. *Note Dmalloc Program::. If you are using the ``high'` token and you need your program to run faster, try the ``medium'` or ``low'` tokens which don't check as many heap features and so run faster although they will not catch as many problems. *Note RC File::.

``Why was a log-file not produced after I ran my program?'`

This could be caused by a number of different problems.

1. Are you sure you followed all of the items in the "Getting Started" section? Please review them if there is any doubt.

*Note Getting Started::.

2. Use the ``env'` or ``printenv'` commands to make sure that the ``DMALLOC_OPTIONS'` variable is set in your exported environment. *Note Environment Variable::.

3. Make sure that your program has been compiled correctly with the `dmalloc` library. The ``ident'` program should show `chunk.c` and other `dmalloc` files compiled into your program. You can also do ``strings -a your-program | grep chunk.c'` and look for something like ``$Id: chunk.c,v 1.152 1999/08/25 12:37:01 gray Exp $'` with different versions and date information. If this doesn't show up then chances are `dmalloc` was not linked into

your program.

4. If your program changes its working directory, it may write the `dmalloc` log-file somewhere else in the filesystem. You will need to check both where the program was started and to where it might change directory.

5. The logfile is only produced when ``dmalloc_shutdown()`` is called. By default it will be called when ``exit()`` gets called. If you are running your program and press ``Control-C`` under Unix the program will stop immediately and ``dmalloc_shutdown()`` will not get called. You can either setup a signal handler for ``SIGINTR`` and call `exit` yourself, or you can enable the ``catch-signals`` token. *Note Debug Tokens::.

6. If your program is segfaulting or otherwise crashing when it exits, the ``exit()`` routine may not be called. You will have to resolve these issues so the `dmalloc` library can gracefully exit and write its log file.

7. You may want to call ``dmalloc_log_stats()`` and ``dmalloc_log_unfreed()`` (or ``dmalloc_log_changed()``) directly to have the library write its log file. Some system modules may not have shutdown if you call this before ``exit()`` so extra unfreed memory may be reported.

``I don't see any information about my non-freed (leaked) memory?``
The library will not (by default) report on "unknown" non-freed memory. Unknown means memory that does not have associated file and line information.

This will be necessary if you are `_not_` including ``dmalloc.h`` in all of your C files or if you are interested in tracking leaks in system functions.

``Dmalloc is returning the error "malloc library has gone recursive"``
This most likely indicates that you are using the `Dmalloc` library within a threaded application and two threads are trying to use the `dmalloc` library at once. Please see the section of the manual about threads for more information about properly configuring the library. *Note Using With Threads::.

If you are not using threads, then your program could have caught a signal while within `Dmalloc`, which then in turn called a memory

allocation routine. It is unwise to allocate memory on the heap in most signal handlers. Lastly, some functions called by the library may call memory routines that it does not anticipate. If you think this the case, please report the problem and include a stack trace, operating system version/type, and the version of Dmalloc you are using.

File: dmalloc.info, Node: Index of Concepts, Prev: Troubleshooting, Up: Top

Index of Concepts

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No license file was found, but licenses were detected in source scan.

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/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/arg_check.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/chunk.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/chunk.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/chunk_loc.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/compat.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/compat.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/conf.h.in/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/configure.ac#
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/contrib/atexit.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-
5.5.2/contrib/dmalloc_summarize.pl#!/usr/bin/perl5
-w
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-
5.5.2/contrib/ra_info.pl#!/usr/bin/perl
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/debug_tok.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc.c/*
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/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc.spec#
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_argv.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_argv.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_argv_loc.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_fc_t.c/*
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/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_tab.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_tab.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_tab_loc.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmallocc.cc/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-
5.5.2/docs/dmalloc.html<!DOCTYPE

```
html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html401/loose.dtd">
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/docs/dmalloc.texi\input
texinfo @c -*texinfo*-
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/env.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/env.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/error.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/error.h/*
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/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/version.h/*
```

Found
in path(s):
*

1.96 python-certifi 2023.11.17

1.96.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: <https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.97 netns 1.0

1.97.1 Available under license :

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```
/*
 * MPTCP implementation - MPTCP namespace
 *
 * Initial Design & Implementation:
 * Sébastien Barré <sebastien.barre@uclouvain.be>
 *
 * Current Maintainer:
 * Christoph Paasch <christoph.paasch@uclouvain.be>
 *
 * Additional authors:
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 * 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.
 */
```

Found in path(s):

* /netns-2-tar-gz/thirdparty/openwrt-1505/build_dir/linux-bcm620-4.1/include/net/netns/mptcp.h

1.98 urllib3 1.26.9

1.98.1 Available under license :

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1.99 wsgiref 0.1.2

1.99.1 Available under license :

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1.100 ncclient 0.6.12

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1.101 idna 3.2

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1.102 python-lxml 4.6.3

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Any

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1.104 py-bcrypt 0.4

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*
* $From: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
*/

```

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1.105 pyserial 2.7

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1.106 pyyaml 5.4.1

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1.107 ply 3.11

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1.109 chardet 4.0.0

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1.110 six 1.12.0

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1.112 cryptography 3.3.2

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1.113 python 2.7.17

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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* Last update: 06/15/2005

* Issue date: 06/15/2005

*

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/opt/cola/permits/2808449467_1765914535.7240038/0/mmc-utils-2023-01-16-d4c2910981ff99b983734426dfa99632fb81ac6b-1-tar-gz/mmc-utils-2023-01-16/mmc.h/*
/opt/cola/permits/2808449467_1765914535.7240038/0/mmc-utils-2023-01-16-d4c2910981ff99b983734426dfa99632fb81ac6b-1-tar-gz/mmc-utils-2023-01-16/mmc_cmds.c/*
/opt/cola/permits/2808449467_1765914535.7240038/0/mmc-utils-2023-01-16-d4c2910981ff99b983734426dfa99632fb81ac6b-1-tar-gz/mmc-utils-2023-01-16/mmc_cmds.h/*

Found

in path(s):

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