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1.507 libnl3 3.4.0

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1.690.1 Available under license

1.691 shadow 4.2.1

1.691.1 Available under license

1.692 libtasn 1.2

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1.693 avahi 0.6

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1.694 tdb 1.43

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1.695 golang 1.12

1.695.1 Available under license

1.696 apache-http-server 2.4.51

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1.697 chardet 3.0.4

1.697.1 Available under license

1.698 zlib 1.2.11

1.698.1 Available under license

1.699 webencodings 0.5.1

1.699.1 Available under license

1.700 pyyaml 3.13

1.700.1 Available under license

1.701 libxml 0.18.3.2

1.701.1 Available under license

1.702 base-64 1.0.0

1.702.1 Available under license

1.703 bmc-cimc-device-drivers 1.0/1.1-1.0

1.703.1 Available under license

1.704 libcap 2.22-8.el7

1.704.1 Available under license

1.705 berkeley-db 5.3.21-19.el7

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1.706 raritan-ipmi 1-1

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1.707 yajl 2.1.0

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1.711 hd-parm 9.56

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1.712 cpprest 2.10.6

1.712.1 Available under license

1.713 libdevmapper 2.02.180

1.713.1 Available under license

1.1 libtomcrypt 1.17

1.1.1 Available under license :

```
# /*
#   * SHA-512
#   * Implementation derived from LibTomCrypt (Tom St Denis)
#   *
#   * LibTomCrypt is a library that provides various cryptographic
#   * algorithms in a highly modular and flexible manner.
#   *
#   * The library is free for all purposes without any express
#   * guarantee it works.
#   *
#   * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
#   */
```

1.2 grub 0.97

1.2.1 Available under license :

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1.4 apache-log4j 1.2.15

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1.7 openssl 0.9.8g

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*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.16 tar 1.23

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1.21 pcre 8.32

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just-in-time compiler that can be used to optimize pattern matching. These
are both optional features that can be omitted when the library is built.

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ppp-2.4.5/include/net/if_ppp.h
ppp-2.4.5/pppd/auth.c
ppp-2.4.5/pppd/fsm.c
ppp-2.4.5/pppd/fsm.h
ppp-2.4.5/pppd/ipcp.c
ppp-2.4.5/pppd/ipcp.h
ppp-2.4.5/pppd/ipv6cp.c
ppp-2.4.5/pppd/ipv6cp.h
ppp-2.4.5/pppd/ipxcp.c
ppp-2.4.5/pppd/ipxcp.h
ppp-2.4.5/pppd/lcp.c
ppp-2.4.5/pppd/lcp.h
ppp-2.4.5/pppd/magic.c
ppp-2.4.5/pppd/magic.h
ppp-2.4.5/pppd/main.c
ppp-2.4.5/pppd/options.c

ppp-2.4.5/pppd/pppd.h
ppp-2.4.5/pppd/session.c
ppp-2.4.5/pppd/sys-linux.c
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ppp-2.4.5/pppd/plugins/radius/avpair.c
ppp-2.4.5/pppd/plugins/radius/clientid.c
ppp-2.4.5/pppd/plugins/radius/config.c
ppp-2.4.5/pppd/plugins/radius/dict.c
ppp-2.4.5/pppd/plugins/radius/includes.h
ppp-2.4.5/pppd/plugins/radius/ip_util.c
ppp-2.4.5/pppd/plugins/radius/lock.c
ppp-2.4.5/pppd/plugins/radius/options.h
ppp-2.4.5/pppd/plugins/radius/pathnames.h
ppp-2.4.5/pppd/plugins/radius/radiusclient.h
ppp-2.4.5/pppd/plugins/radius/sendserver.c
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ppp-2.4.5/pppd/plugins/radius/dict.c

ppp-2.4.5/pppd/plugins/radius/includes.h
ppp-2.4.5/pppd/plugins/radius/ip_util.c
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ppp-2.4.5/pppd/plugins/radius/pathnames.h
ppp-2.4.5/pppd/plugins/radius/radiusclient.h
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ppp-2.4.5/pppd/session.c

```
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ppp-2.4.5/include/linux/if_pppol2tp.h
/***
* Linux PPP over L2TP (PPPoL2TP) Socket Implementation (RFC 2661)
*
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* (pppol2tp.c). All version information wrt this file is located in
 * pppol2tp.c
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ppp-2.4.5/pppd/plugins/pppol2tp/pppol2tp.c

```
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*   for Linux using kernel pppol2tp support.
*
* Requires kernel pppol2tp driver which is integrated into the kernel
* from 2.6.23 onwards. For earlier kernels, a version can be obtained
* from the OpenL2TP project at
```

* http://www.sourceforge.net/projects/openl2tp/
*
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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

the latter only
works together with the library.

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which has been distributed under these terms. A "work based on the
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making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work
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a program that is not a library.

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

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

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to use the modified definitions.)

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

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

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

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the
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1.25 gzip 1.6

1.25.1 Available under license :

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1.30 e2fsprogs 1.42.9

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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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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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Theodore Ts'o
23-June-2007

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This is the Debian GNU/Linux prepackaged version of the Common Error
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This package was put together by Yann Dirson <dirson@debian.org>,
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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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The "source code" for a work means the preferred form of the work
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1.33 ethtool 3.9

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1.34 libtool-libltdl 2.4.2

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1.35 dropbear 2013.58

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=====

sshpty.c is taken from OpenSSH 3.5p1,
Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
All rights reserved
"As far as I am concerned, the code I have written for this software can be used freely for any purpose. Any derived versions of this software must be clearly marked as such, and if the derived work is incompatible with the protocol description in the RFC

file, it must be
called by a name other than "ssh" or "Secure Shell". "

=====

loginrec.c
loginrec.h
atomicio.h
atomicio.c
and strlcat() (included in util.c) are from OpenSSH 3.6.1p2, and are licensed
under the 2 point BSD license.

loginrec is written primarily by Andre Lucas, atomicio.c by Theo de Raadt.

strlcat() is (c) Todd C. Miller

=====

Import code in keyimport.c is modified from PuTTY's import.c, licensed as
follows:

PuTTY is copyright 1997-2003 Simon Tatham.

Portions copyright Robert de Bath, Joris van Rantwijk, Delian
Delchev, Andreas Schultz, Jeroen Massar, Wez Furlong, Nicolas Barry,
Justin Bradford, and CORE SDI S.A.

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CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
LibTomMath is hereby released into the Public Domain.

-- Tom St Denis

LibTomCrypt is public domain. As should all quality software be.

Tom St Denis

1.36 libcroco 0.6.8

1.36.1 Available under license :

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Version 2, June 1991

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

Preamble

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

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

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

concluded that weaker conditions might promote sharing better.

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

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

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writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

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modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter
the names:

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

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

That's all there is to it!

1.37 cracklib 2.9.1

1.37.1 Available under license :

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively

involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan

wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I

think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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to use the modified definitions.)

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

That's all there is to it!

1.38 binutils 2.24

1.38.1 Available under license :

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1.39 unzip 6.0

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- -

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alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
  * (Apple Macintosh Developer Technical Support Emeritus)
  * Copyright  1992-1998
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  *
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  *          However, what you are not permitted to do is to
```

```
   *        redistribute the source as "DSC Sample Code" after
   *        having made changes. If you're going to
   *        redistribute the source, we require that you make
   *        it clear in the source that the code was descended
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```

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(extra field compatibility with ZipIt):

```
   *  MacBinaryIII.h
   *
   *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
   *
   *  Basic encoding and decoding of Macintosh files to the
   *  MacBinary III spec.
   * ---------------------------------------------------------------------
   * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
   * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
   * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

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```
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   *
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```

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-

May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default
no longer contains any of Mr. Smith's code, Info-ZIP
remains indebted and grateful to him. We hope he finds our contribu-
tions as useful as we have his.

Note that the third and fourth stipulations still apply to any com-
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```

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```

```
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```

```
 The remaining code was written by many people associated with the
 Info-ZIP group, with large contributions from (but not limited to):
 Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
 mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
 Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
 Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
 DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
 others.  See the file CONTRIBS in the source distribution for a much
 more complete list of contributors.
  The decompression core code for the deflate method (inflate.[ch],
 explode.c) was originally written by Mark Adler who submitted it
 as public domain code.
```

1.40 free-type 2.5.3

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1.41 ncurses 5.9

1.41.1 Available under license :

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1.43 runit 2.1.1

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1.44 httpfs2 0.1.4

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* This 'beam me up, Scotty'-branch of httpfs tries to achieve,
* that the mount-point-folder behaves as before.
* But how can you access the original folder after the mount?
* Answer comes from FuseCompress:
* Open the folder before the mount,
* keep it open all the time,
* make a chdir to it
* and always use a relative path.
* It suffices not to chdir in main() and it's unnecessary to
* do it in every function. httpfs_init is the right place.
*

*/
Authors:
Michal Suchanek <hramrach@centrum.cz>
hmb <marionraven@users.sourceforge.net>
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1.45 findutils 4.4.2

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#
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1.47 libxmu 1.1.1

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1.48 ini-parser 3.0

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1.49 libusb 1.0.18

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1.50 dhcp 4.3.0

1.50.1 Available under license :

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh,

admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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

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

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

 <xsl:variable name="isc.copyright.text">
   <xsl:text>
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</xsl:text>
</xsl:variable>

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

</xsl:stylesheet>

<!--

- Local variables:
- mode: sgml
- End:
-->
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1.51 net-snmp 5.1

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1.52 libpcap 1.7.3

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1.53 glibc 2.19

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1.56 apache-http-server 2.4.16

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*/
```

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```
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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 *
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```
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# This comes from X11R5 (mit/util/scripts/install.sh).
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     ===============

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

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

*/

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*
*/
```

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```
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```

For the server\util_md5.c component:

```
/************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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************************************************************************
 *
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*
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* --
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For the srclib\apr-util\xml\expat\conftools\install-sh component:

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install - install a program, script, or datafile
This comes from X11R5 (mit/util/scripts/install.sh).
#
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#

For the test\zb.c component:

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    ===============

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

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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==========

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet" type="text/css" href="./style/css/prettify.css"
 />
<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a href="./sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.gif" /></div>
<div class="up"><a href="./"><img title="<-" alt="<-" src="./images/left.gif" /></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a href="http://httpd.apache.org/docs/">Documentation</a> > <a href="./">Version 2.4</a></div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages:
```

 en

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<script type="text/javascript"><!--//--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' <\/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;

```
      s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;

 (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
   }
   else {
      d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
   }
})(window, document);
//--><!]]></script></div><div id="footer">
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<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a
href="./sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--//--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
   prettyPrint();
}
//--><!]]></script>
</body></html>
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1.57 net-snmp 5.7.3

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1.61 smartmontools 6.4

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1.62 diffutils 3.3

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1.63 findutils 4.6.0

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu
The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if

you believe you should be listed, please send a note to sudo@sudo.ws.

Matt Ackeret
Mark Adler
Russ Allbery
Nick Andrew
Dimitry Andric
Danny Barron
Tom Bates
Zdenek Behan
Ray Bellis
Elias Benali
Jamie Beverly
Spider Boardman
Jakub Bogusz
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Keith Bowes
Keith Garry Boyce
Michael Brantley
Rob Braun
Pavel Brezina
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Jerry Brown
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Steve Fobes
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Jean-loup Gailly
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Joachim Henke
YOSHIFUJI Hideaki
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Ludwig Nussel
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Eric Paquet
Chantal Paradis
Ted Percival
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Martynas Venckus
Klaus Wagner
Dan Walsh
Wylmer Wang
John Warburton
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Marco van Wieringen
David Wood
Gustavo Zacarias
John Zolnowsky

1.69 audit 2.4.1 5.el7

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1.70 bash 4.2.46 20.el7_2

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From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
 id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
 id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
 id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

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

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

It should serve as a pretty good example of how to get carried away. :-)
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
 id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
 id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions
before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in
the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}

} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey

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From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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1.71 biosdevname 0.6.2 1.el7

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1.73 curl 7.29.0 25.el7.centos

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==========

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using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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axTLS http://axtls.sourceforge.net/

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c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

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fbopenssl

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libidn http://josefsson.org/libidn/

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OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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1.74 dhcp 4.2.5 42.el7.centos

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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino
 <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
 admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
 except the first one, were first implemented in the Buildtool project.
 They were later adapted to be part of Boost.Process and, during that
 process, the shell script was created.

 Author: Julio Merino <jmmv84@gmail.com>

==
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
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+   trivial database library - standalone version

-   trivial database library - private includes
-
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convey the exclusion of warranty; and each file should have at least
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of author>

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copy the source along with the object code.

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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

That's all there is to it!
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

```
$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of: tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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This is the Debian GNU/Linux prepackaged version of the ss
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otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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1.77 elfutils 0.163 3.el7

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1.79 file 5.11 31.el7

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1.80 findutils 4.5.11 5.el7

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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stand
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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

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

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be combined with the library in order to run.

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

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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
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Version 3, 29 June 2007

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The

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1.92 lua 5.1.4 14.el7

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

   VIM REFERENCE MANUAL by Bram Moolenaar

  uganda *Uganda* *copying* *copyright* *license*
SUMMARY
      iccf *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
encouraged to make a donation for needy children in Uganda. Please see |kcc|
below or visit the ICCF web site, available at these URLs:

 http://iccf-holland.org/
 http://www.vim.org/iccf/
 http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see
|manual-copyright|.

=== begin of license ===

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I) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
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include this license text. You
are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
examples and Vim scripts.

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including executables and/or source code, when the following four
conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
a) If you make changes to Vim yourself, you must clearly describe in
the distribution how to contact you. When the maintainer asks you
(in any way) for a copy of the modified Vim you distributed, you
must make your changes, including source code, available to the
maintainer without fee. The maintainer reserves the right to
include your changes in the official version of Vim. What the
maintainer will do with your changes and under what license they
will be distributed is negotiable. If there has been no negotiation

then this license, or a later version, also applies to your changes.
The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
changes it will be announced in appropriate places (most likely
vim.sf.net, www.vim.org and/or comp.editors). When it is completely
impossible to contact the maintainer, the obligation to send him
your changes ceases. Once the maintainer has confirmed that he has
received your changes they will not have to be sent again.
b) If you have received a modified Vim that was distributed as
mentioned under a) you are allowed to further distribute it
unmodified, as mentioned at I). If you make additional changes the
text under a) applies to those changes.
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the modified Vim you distribute. This may be done in the form of a
context diff. You can choose what license to use for new code you
add. The changes and their license must not restrict
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making their own changes to the official version of Vim.
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under c), you can distribute it without the source code for the
changes if the following three conditions are met:
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  or someone who you distributed the modified Vim to asks you (in
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  available to him.
- You clearly describe in the distribution how to contact you. This
  contact information must remain valid for at least three years
  after last distributing the corresponding
modified Vim, or as long
  as possible.

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you can distribute the modified Vim under the GNU GPL version 2 or
any later version.

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   command and in the intro screen, such that the user of the modified Vim
   is able to see that it was modified. When distributing as mentioned
   under 2)e) adding the message is only required for as far as this does
   not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be
   removed or changed, except that the person himself can make
   corrections.

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  by e-mail or by uploading
the files to a server and e-mailing the URL.
  If the number of changes is small (e.g., a modified Makefile) e-mailing a
  context diff will do. The e-mail address to be used is
  <maintainer@vim.org>

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  sources, parts of it or from a modified version. You may use this
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Note:

- If you are happy with Vim, please express that by reading the rest of this
file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
|sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not

make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further
distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that

needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold
below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship
the amounts are
very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre

p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS)
is no longer possible, unfortunately. We are looking for
another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US
checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in
Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If
you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift

code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit
card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.102 xz 5.1.2 12alpha.el7

1.102.1 Available under license :

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Version 2, June 1991

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1.104 zlib 1.2.7 15.el7

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1:   32   7648 0x83
#2:   7680   8704 0xa5
#5:   7936   4864 0x7 (freebsd)
#6:   12544   3584 0x7 (freebsd)
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023
bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux
__ts_dev__2		4096	20479	8192	a5	FreeBSD

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout----------

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
c:	4096	20479	16384	unused	0	0	
d:	0						
	16064	16065	unused	0	0		

BSD disklabel command (m for help):
Command (m for help):
---

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout----------

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

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

Command (m for help):

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

BSD disklabel command (m for help):
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1.106 usb-modeswitch 1.2.7 6.el7

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1.107 popt 1.13 16.el7

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1.108 grep 2.20 2.el7

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1.112 openssl 1.0.2j

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1.113 sqlite 3.14.2

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1.114 glibc 2.24

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1.116 libpcap 1.8.1

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1.117 python 2.7.12

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""" robotparser.py

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#
Module Name: dbShelve.py
#
Description: A reimplementation of the standard shelve.py that
forces the use of cPickle, and DB.
#
Creation Date: 11/3/97 3:39:04PM
#
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/* --

unicodedata -- Provides access to the Unicode 5.1 data base.

Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).
Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
Modified by Martin v. L"wis (martin@v.loewis.de)

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/* Random objects */

/* --
The code in this module was based on a download from:
http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html

It was modified in 2002 by Raymond Hettinger as follows:

* the principal computational lines untouched except for tabbing.

* renamed genrand_res53() to random_random() and wrapped
in python calling/return code.

* genrand_int32() and the helper functions, init_genrand()
and init_by_array(), were declared static, wrapped in
Python calling/return code. also, their global data
references were replaced with structure references.

* unused functions from the original were deleted.
new, original C python code was added to implement the
Random() interface.

The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp
*/

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==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now		PSF	yes

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# subprocess - Subprocesses with accessible I/O streams
#
```

```
# For more information about this module, see PEP 324.
#
# This module should remain compatible with Python 2.2, see PEP 291.
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---------- */

```
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# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
# limited xinclude support for element trees
#
# history:
# 2003-08-15 fl   created
# 2003-11-14 fl   fixed default loader
#
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#
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#   --  Gregory P. Smith <greg@krypto.org>
#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $
# Original version written by Greg Stein (gstein@lyra.org)
#                         and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

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

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Any feedback is very welcome.
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Sockets

The :mod:'socket' module uses the functions, :func:'getaddrinfo', and
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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The code is derived from the text of the RFC, including the test suite
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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

XML Remote Procedure Calls

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
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1.125 go-zap 1.0

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Ty Coon, President of Vice
That`s all there is to it!

/* number.c: Implements arbitrary precision numbers. */
/*
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     e-mail: philnelson@acm.org
    us-mail: Philip A. Nelson

```
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*****************************************************************************/

#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_;
bc_num _one_;
bc_num _two_;

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)
    int length, scale;
{
 bc_num temp;

 if (_bc_Free_list != NULL) {
   temp = _bc_Free_list;
   _bc_Free_list = temp->n_next;
  } else {
   temp = (bc_num) malloc (sizeof(bc_struct));
   if (temp == NULL) bc_out_of_memory ();
 }
 temp->n_sign = PLUS;
 temp->n_len = length;
 temp->n_scale = scale;
 temp->n_refs = 1;
```

```
 temp->n_ptr = (char *) malloc (length+scale);
 if (temp->n_ptr == NULL) bc_out_of_memory();
 temp->n_value = temp->n_ptr;
 memset (temp->n_ptr, 0, length+scale);
 return temp;
}

/* "Frees" a bc_num NUM.  Actually decreases reference count and only
  frees the storage if reference count is zero. */

void
bc_free_num (num)
   bc_num *num;
{
 if (*num == NULL) return;
 (*num)->n_refs--;
 if ((*num)->n_refs == 0) {
   if ((*num)->n_ptr)
     free ((*num)->n_ptr);
   (*num)->n_next = _bc_Free_list;
   _bc_Free_list = *num;
 }
 *num = NULL;
}


/* Intitialize the number package! */

void
bc_init_numbers ()
{
 _zero_ = bc_new_num (1,0);
 _one_  = bc_new_num (1,0);
 _one_->n_value[0] = 1;
 _two_  = bc_new_num (1,0);
 _two_->n_value[0] = 2;
}


/* Make a copy of a number!  Just
 increments the reference count! */

bc_num
bc_copy_num (num)
    bc_num num;
{
 num->n_refs++;
 return num;
```

```
}


/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
    bc_num *num;
{
 *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
  _bc_rm_leading_zeros just moves the data "value" pointer to the
  correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
 /* We can move n_value to point to the first non zero digit! */
 while (*num->n_value == 0 && num->n_len > 1) {
   num->n_value++;
   num->n_len--;
 }
}


/* Compare two bc numbers.  Return value is 0 if equal, -1 if N1 is less
  than N2 and +1 if N1 is greater than N2.  If USE_SIGN is false, just
  compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
 char *n1ptr, *n2ptr;
 int  count;

 /* First, compare
 signs. */
 if (use_sign && n1->n_sign != n2->n_sign)
   {
     if (n1->n_sign == PLUS)
 return (1); /* Positive N1 > Negative N2 */
     else
```

```
return (-1); /* Negative N1 < Positive N1 */
  }

/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
  {
    if (n1->n_len > n2->n_len)
{
  /* Magnitude of n1 > n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (1);
  else
    return (-1);
}
    else
{
  /* Magnitude of n1 < n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (-1);
  else
    return (1);
}
  }

/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
  {
    n1ptr++;
    n2ptr++;
    count--;
  }
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
  return (0);
if (count !=
0)
  {
    if (*n1ptr > *n2ptr)
{
  /* Magnitude of n1 > n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (1);
  else
    return (-1);
```

```
}
    else
{
  /* Magnitude of n1 < n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (-1);
  else
    return (1);
}
  }

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
  {
    if (n1->n_scale > n2->n_scale)
{
  for (count = n1->n_scale-n2->n_scale; count>0; count--)
    if (*n1ptr++ != 0)
      {
 /* Magnitude of n1 > n2. */
 if (!use_sign || n1->n_sign == PLUS)
   return (1);
 else
   return (-1);
      }
}
    else
{
  for (count = n2->n_scale-n1->n_scale; count>0; count--)
    if (*n2ptr++ != 0)
      {
 /* Magnitude of n1 < n2. */
 if (!use_sign || n1->n_sign == PLUS)
   return (-1);
 else
   return (1);
      }
}
  }

 /* They must be equal! */
 return (0);
}



/* This is the "user callable" routine to compare numbers
 N1 and N2. */
```

```
int
bc_compare (n1, n2)
    bc_num n1, n2;
{
 return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
 return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
 int  count;
 char *nptr;

 /* Quick check. */
 if (num == _zero_) return TRUE;

 /* Initialize */
 count = num->n_len + num->n_scale;
 nptr = num->n_value;

 /* The check */
 while ((count > 0) && (*nptr++ == 0)) count--;

 if (count != 0)
   return FALSE;
 else
   return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
  Specifically, all but the last digit is 0 and the last digit is 1.
  Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
```

```
    int scale;
{
 int  count;
 char *nptr;

 /* Error checking */
 if (scale > num->n_scale)
   scale = num->n_scale;

  /* Initialize */
 count = num->n_len + scale;
 nptr = num->n_value;

 /* The check */
 while ((count > 0) && (*nptr++ == 0)) count--;

 if (count != 0 && (count != 1 || *--nptr != 1))
   return FALSE;
 else
   return TRUE;
}


/* Perform addition: N1 is added to N2 and the value is
  returned.  The signs of N1 and N2 are ignored.
  SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
 bc_num sum;
 int sum_scale, sum_digits;
 char *n1ptr, *n2ptr, *sumptr;
 int carry, n1bytes, n2bytes;
 int count;

 /* Prepare sum. */
 sum_scale = MAX (n1->n_scale, n2->n_scale);
 sum_digits = MAX (n1->n_len, n2->n_len) + 1;
 sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

 /* Zero extra digits made by scale_min. */
 if (scale_min > sum_scale)
   {
     sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
     for (count = scale_min - sum_scale; count > 0; count--)
```

```
*sumptr++
= 0;
  }

/* Start with the fraction part.  Initialize the pointers. */
n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part.  First copy the longer fraction.*/
if (n1bytes != n2bytes)
  {
    if (n1bytes > n2bytes)
while (n1bytes>n2bytes)
  { *sumptr-- = *n1ptr--; n1bytes--;}
    else
while (n2bytes>n1bytes)
  { *sumptr-- = *n2ptr--; n2bytes--;}
  }

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
  {
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
{
   carry = 1;
   *sumptr -= BASE;
}
    else
carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
  }

/* Now add carry the
longer integer part. */
if (n1bytes == 0)
  { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
  {
    *sumptr = *n1ptr-- + carry;
```

```
    if (*sumptr > (BASE-1))
 {
   carry = 1;
   *sumptr -= BASE;
  }
    else
 carry = 0;
    sumptr--;
  }

 /* Set final carry. */
 if (carry == 1)
  *sumptr += 1;

 /* Adjust sum and return. */
 _bc_rm_leading_zeros (sum);
 return sum;
}


/* Perform subtraction: N2 is subtracted from N1 and the value is
  returned.  The signs of N1 and N2 are ignored.  Also, N1 is
  assumed to be larger than N2.  SCALE_MIN is the minimum scale
  of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
 bc_num diff;
 int diff_scale, diff_len;
 int min_scale, min_len;
 char *n1ptr, *n2ptr, *diffptr;
 int borrow, count, val;

 /* Allocate temporary storage. */
 diff_len = MAX (n1->n_len, n2->n_len);
 diff_scale = MAX (n1->n_scale, n2->n_scale);
 min_len = MIN  (n1->n_len, n2->n_len);
  min_scale = MIN (n1->n_scale, n2->n_scale);
 diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

 /* Zero extra digits made by scale_min. */
 if (scale_min > diff_scale)
   {
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
```

```
*diffptr++ = 0;
  }

/* Initialize the subtract. */
n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
  {
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
*diffptr-- = *n1ptr--;
  }
else
  {
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
{
  val = - *n2ptr-- - borrow;
  if (val < 0)

{
      val += BASE;
      borrow = 1;
    }
  else
    borrow = 0;
  *diffptr-- = val;
}
  }

/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
  {
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
{
  val += BASE;
  borrow = 1;
}
    else
borrow = 0;
```

```
    *diffptr-- = val;
  }

 /* If n1 has more digits then n2, we now do that subtract. */
 if (diff_len != min_len)
  {
    for (count = diff_len - min_len; count > 0; count--)
 {
  val = *n1ptr-- - borrow;
  if (val < 0)
    {
      val += BASE;
      borrow = 1;
    }
  else
    borrow = 0;
  *diffptr-- = val;
 }
  }

 /* Clean up and return. */
 _bc_rm_leading_zeros (diff);
 return diff;
}


/* Here is the full subtract routine that takes care of negative numbers.
  N2 is subtracted from N1 and the result placed in RESULT.  SCALE_MIN
  is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)

    bc_num n1, n2, *result;
    int scale_min;
{
 bc_num diff = NULL;
 int cmp_res;
 int res_scale;

 if (n1->n_sign != n2->n_sign)
  {
    diff = _bc_do_add (n1, n2, scale_min);
    diff->n_sign = n1->n_sign;
  }
 else
  {
    /* subtraction must be done. */
```

```
    /* Compare magnitudes. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
    switch (cmp_res)
{
case -1:
  /* n1 is less than n2, subtract n1 from n2. */
  diff = _bc_do_sub (n2, n1, scale_min);
  diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
  break;
case  0:
  /* They are equal! return zero! */
  res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
  diff = bc_new_num (1, res_scale);
  memset (diff->n_value, 0, res_scale+1);
  break;
case  1:
  /* n2 is less than n1, subtract n2 from n1. */
  diff = _bc_do_sub (n1, n2, scale_min);
  diff->n_sign = n1->n_sign;
  break;
}
  }

/* Clean up and return. */
bc_free_num (result);
*result = diff;
}


/* Here is the
 full add routine that takes care of negative numbers.
  N1 is added to N2 and the result placed into RESULT.  SCALE_MIN
  is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
 bc_num sum = NULL;
 int cmp_res;
 int res_scale;

 if (n1->n_sign == n2->n_sign)
  {
    sum = _bc_do_add (n1, n2, scale_min);
    sum->n_sign = n1->n_sign;
  }
```

```
 else
   {
     /* subtraction must be done. */
     cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);  /* Compare magnitudes. */
     switch (cmp_res)
 {
 case -1:
   /* n1 is less than n2, subtract n1 from n2. */
   sum = _bc_do_sub (n2, n1, scale_min);
   sum->n_sign = n2->n_sign;
   break;
 case  0:
   /* They are equal! return zero with the correct scale! */
   res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
   sum = bc_new_num (1, res_scale);
   memset (sum->n_value, 0, res_scale+1);
   break;
 case  1:
   /* n2 is less than n1, subtract n2 from
 n1. */
   sum = _bc_do_sub (n1, n2, scale_min);
   sum->n_sign = n1->n_sign;
 }
   }

 /* Clean up and return. */
 bc_free_num (result);
 *result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
 bc_num temp;
```

```
 if (_bc_Free_list != NULL) {
   temp = _bc_Free_list;
   _bc_Free_list = temp->n_next;
 } else {
   temp = (bc_num) malloc (sizeof(bc_struct));
   if (temp == NULL) bc_out_of_memory ();
 }
 temp->n_sign = PLUS;
 temp->n_len = length;
 temp->n_scale = scale;
 temp->n_refs = 1;
 temp->n_ptr = NULL;
 temp->n_value = value;
 return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
       int full_scale)
{
  char *n1ptr, *n2ptr, *pvptr;
 char *n1end, *n2end;  /* To the end of n1 and n2. */
 int indx, sum, prodlen;

 prodlen = n1len+n2len+1;

 *prod = bc_new_num (prodlen, 0);

 n1end = (char *) (n1->n_value + n1len - 1);
 n2end = (char *) (n2->n_value + n2len - 1);
 pvptr = (char *) ((*prod)->n_value + prodlen - 1);
 sum = 0;

 /* Here is the loop... */
 for (indx = 0; indx < prodlen-1; indx++)
   {
     n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
     n2ptr = (char *) (n2end - MIN(indx, n2len-1));
     while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
 sum += *n1ptr-- * *n2ptr++;
     *pvptr-- = sum % BASE;
     sum = sum / BASE;
   }
 *pvptr = sum;
}
```

```
/* A special adder/subtractor for the recursive divide and conquer
  multiply algorithm.  Note: if sub is called, accum must
  be larger that what is being subtracted.  Also, accum and val
  must have n_scale = 0.  (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int
 shift, int sub)
{
 signed char *accp, *valp;
 int  count, carry;

 count = val->n_len;
 if (val->n_value[0] == 0)
   count--;
 assert (accum->n_len+accum->n_scale >= shift+count);

 /* Set up pointers and others */
 accp = (signed char *)(accum->n_value +
    accum->n_len + accum->n_scale - shift - 1);
 valp = (signed char *)(val->n_value + val->n_len - 1);
 carry = 0;

 if (sub) {
   /* Subtraction, carry is really borrow. */
   while (count--) {
     *accp -= *valp-- + carry;
     if (*accp < 0) {
 carry = 1;
       *accp-- += BASE;
     } else {
 carry = 0;
 accp--;
     }
   }
   while (carry) {
     *accp -= carry;
     if (*accp < 0)
 *accp-- += BASE;
     else
 carry = 0;
   }
 } else {
   /* Addition */
   while (count--) {
     *accp += *valp-- + carry;
     if (*accp > (BASE-1)) {
 carry = 1;
       *accp-- -= BASE;
```

```
    } else {
 carry = 0;
 accp--;
    }
  }
  while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
 *accp--
 -= BASE;
    else
 carry = 0;
  }
 }
}

/* Recursive divide and conquer multiply algorithm.
  Based on
  Let u = u0 + u1*(b^n)
  Let v = v0 + v1*(b^n)
  Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0

  B is the base of storage, number of digits in u1,u0 close to equal.
*/
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
      int full_scale)
{
 bc_num u0, u1, v0, v1;
 int u0len, v0len;
 bc_num m1, m2, m3, d1, d2;
 int n, prodlen, m1zero;
 int d1len, d2len;

 /* Base case? */
 if ((ulen+vlen) < mul_base_digits
    || ulen < MUL_SMALL_DIGITS
    || vlen < MUL_SMALL_DIGITS ) {
  _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
  return;
 }

 /* Calculate n -- the u and v split point in digits. */
 n = (MAX(ulen, vlen)+1) / 2;

 /* Split u and v. */
 if (ulen < n) {
  u1 = bc_copy_num (_zero_);
```

```
  u0 = new_sub_num (ulen,0, u->n_value);
} else {
  u1 = new_sub_num (ulen-n, 0, u->n_value);
  u0 =
new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
  v1 = bc_copy_num (_zero_);
  v0 = new_sub_num (vlen,0, v->n_value);
} else {
  v1 = new_sub_num (vlen-n, 0, v->n_value);
  v0 = new_sub_num (n, 0, v->n_value+vlen-n);
  }
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;


/* Do recursive multiplies and shifted adds. */
if (m1zero)
  m1 = bc_copy_num (_zero_);
else
  _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
  m2 = bc_copy_num (_zero_);
else
  _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
  m3 = bc_copy_num (_zero_);
else
  _bc_rec_mul
```

```
(u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
  _bc_shift_addsub (*prod, m1, 2*n, 0);
  _bc_shift_addsub (*prod, m1, n, 0);
}
_bc_shift_addsub (*prod, m3, n, 0);
_bc_shift_addsub (*prod, m3, 0, 0);
_bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
  the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
  */

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
 bc_num pval;
 int len1, len2;
 int full_scale, prod_scale;

 /* Initialize things. */
 len1 = n1->n_len + n1->n_scale;
 len2 = n2->n_len + n2->n_scale;
 full_scale
 = n1->n_scale + n2->n_scale;
 prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

 /* Do the multiply */
 _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);
```

```
 /* Assign to prod and clean up the number. */
 pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
 pval->n_value = pval->n_ptr;
 pval->n_len = len2 + len1 + 1 - full_scale;
 pval->n_scale = prod_scale;
 _bc_rm_leading_zeros (pval);
 if (bc_is_zero (pval))
   pval->n_sign = PLUS;
 bc_free_num (prod);
 *prod = pval;
}

/* Some utility routines for the divide:  First a one digit multiply.
  NUM (with SIZE digits) is multiplied by DIGIT and the result is
  placed into RESULT.  It is written so that NUM and RESULT can be
  the same pointers.  */

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
 int carry, value;
 unsigned char *nptr, *rptr;

 if (digit == 0)
   memset (result, 0, size);
 else
   {
     if
 (digit == 1)
 memcpy (result, num, size);
     else
 {
   /* Initialize */
   nptr = (unsigned char *) (num+size-1);
   rptr = (unsigned char *) (result+size-1);
   carry = 0;

   while (size-- > 0)
     {
       value = *nptr-- * digit + carry;
       *rptr-- = value % BASE;
       carry = value / BASE;
     }
```

```
  if (carry != 0) *rptr = carry;
 }
   }
}


/* The full division routine. This computes N1 / N2.  It returns
  0 if the division is ok and the result is in QUOT.  The number of
  digits after the decimal point is SCALE. It returns -1 if division
  by zero is tried.  The algorithm is found in Knuth Vol 2. p237. */

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
 bc_num qval;
 unsigned char *num1, *num2;
 unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
 int  scale1, val;
 unsigned int  len1, len2, scale2, qdigits, extra, count;
 unsigned int  qdig, qguess, borrow, carry;
 unsigned char *mval;
 char zero;
 unsigned int  norm;

 /* Test
 for divide by zero. */
 if (bc_is_zero (n2)) return -1;

 /* Test for divide by 1.  If it is we must truncate. */
 if (n2->n_scale == 0)
   {
    if (n2->n_len == 1 && *n2->n_value == 1)
 {
  qval = bc_new_num (n1->n_len, scale);
  qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
  memset (&qval->n_value[n1->n_len],0,scale);
  memcpy (qval->n_value, n1->n_value,
   n1->n_len + MIN(n1->n_scale,scale));
  bc_free_num (quot);
  *quot = qval;
 }
   }

 /* Set up the divide.  Move the decimal point on n1 by n2's scale.
    Remember, zeros on the end of num2 are wasted effort for dividing. */
 scale2 = n2->n_scale;
```

```
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
  extra = scale - scale1;
else
  extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();

memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
  {
    n2ptr++;
    len2--;
  }

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
  {
    qdigits = scale+1;
    zero = TRUE;
  }
else
  {
    zero = FALSE;
    if (len2>len1)
qdigits = scale+1;   /* One for the zero integer part. */
    else
qdigits = len1-len2+scale+1;
  }

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
```

```
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
  {
    /* Normalize
*/
    norm =  10 / ((int)*n2ptr + 1);
    if (norm != 1)
{
  _one_mult (num1, len1+scale1+extra+1, norm, num1);
  _one_mult (n2ptr, len2, norm, n2ptr);
}

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
qptr = (unsigned char *) qval->n_value+len2-len1;
    else
qptr = (unsigned char *) qval->n_value;

    /* Loop */
    while (qdig <= len1+scale-len2)
{
  /* Calculate the quotient digit guess. */
  if (*n2ptr == num1[qdig])
    qguess = 9;
  else
    qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

  /* Test qguess. */
  if (n2ptr[1]*qguess >
      (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
       + num1[qdig+2])
    {
      qguess--;
      /* And again. */
      if (n2ptr[1]*qguess >
   (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
   + num1[qdig+2])
 qguess--;
    }

  /* Multiply and subtract. */
  borrow = 0;
  if (qguess != 0)
    {
      *mval = 0;
```

```
      _one_mult (n2ptr, len2, qguess, mval+1);

     ptr1 = (unsigned char *) num1+qdig+len2;
      ptr2 = (unsigned char *) mval+len2;
      for (count = 0; count < len2+1; count++)
 {
  val = (int) *ptr1 - (int) *ptr2-- - borrow;
  if (val < 0)
    {
      val += 10;
      borrow = 1;
    }
  else
    borrow = 0;
  *ptr1-- = val;
 }
    }

  /* Test for negative result. */
  if (borrow == 1)
    {
      qguess--;
      ptr1 = (unsigned char *) num1+qdig+len2;
      ptr2 = (unsigned char *) n2ptr+len2-1;
      carry = 0;
      for (count = 0; count < len2; count++)
 {
  val = (int) *ptr1 + (int) *ptr2-- + carry;
  if (val > 9)
    {
      val -= 10;
      carry = 1;
    }
  else
    carry = 0;
  *ptr1-- = val;
 }
      if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
    }

  /* We now know the quotient digit. */
  *qptr++ =  qguess;
  qdig++;
 }
  }

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
```

```
 if (bc_is_zero (qval)) qval->n_sign
 = PLUS;
 _bc_rm_leading_zeros (qval);
 bc_free_num (quot);
 *quot = qval;

 /* Clean up temporary storage. */
 free (mval);
 free (num1);
 free (num2);

 return 0; /* Everything is OK. */
}


/* Division *and* modulo for numbers.  This computes both NUM1 / NUM2 and
  NUM1 % NUM2  and puts the results in QUOT and REM, except that if QUOT
  is NULL then that store will be omitted.
*/

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
 bc_num quotient = NULL;
 bc_num temp;
 int rscale;

 /* Check for correct numbers. */
 if (bc_is_zero (num2)) return -1;

 /* Calculate final scale. */
 rscale = MAX (num1->n_scale, num2->n_scale+scale);
 bc_init_num(&temp);

 /* Calculate it. */
 bc_divide (num1, num2, &temp, scale);
 if (quot)
   quotient = bc_copy_num (temp);
 bc_multiply (temp, num2, &temp, rscale);
 bc_sub (num1, temp, rem, rscale);
 bc_free_num (&temp);

 if (quot)
   {
     bc_free_num (quot);
```

```
      *quot = quotient;
    }

  return 0; /* Everything is OK. */
}


/* Modulo for numbers.  This computes NUM1 % NUM2  and puts the
   result in RESULT.   */

int
bc_modulo (num1, num2, result, scale)
     bc_num num1, num2, *result;
     int scale;
{
  return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD.  The result is
   placed in RESULT.  If a EXPO is not an integer,
   only the integer part is used.  */

int
bc_raisemod (base, expo, mod, result, scale)
     bc_num base, expo, mod, *result;
     int scale;
{
  bc_num power, exponent, parity, temp;
  int rscale;

  /* Check for correct numbers. */
  if (bc_is_zero(mod)) return -1;
  if (bc_is_neg(expo)) return -1;

  /* Set initial values.  */
  power = bc_copy_num (base);
  exponent = bc_copy_num (expo);
  temp = bc_copy_num (_one_);
  bc_init_num(&parity);

  /* Check the base for scale digits. */
  if (base->n_scale != 0)
     bc_rt_warn ("non-zero scale in base");

  /* Check
  the exponent for scale digits. */
  if (exponent->n_scale != 0)
    {
```

```
    bc_rt_warn ("non-zero scale in exponent");
    bc_divide (exponent, _one_, &exponent, 0); /*truncate */
   }

 /* Check the modulus for scale digits. */
 if (mod->n_scale != 0)
    bc_rt_warn ("non-zero scale in modulus");

 /* Do the calculation. */
 rscale = MAX(scale, base->n_scale);
 while ( !bc_is_zero(exponent) )
  {
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
 {
  bc_multiply (temp, power, &temp, rscale);
  (void) bc_modulo (temp, mod, &temp, scale);
 }

    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
  }

 /* Assign the value. */
 bc_free_num (&power);
 bc_free_num (&exponent);
 bc_free_num (result);
 *result = temp;
 return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power.  The result is placed in RESULT.
  Maximum exponent is LONG_MAX.  If a NUM2 is not an
 integer,
  only the integer part is used.  */

void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
  bc_num temp, power;
  long exponent;
  int rscale;
  int pwrscale;
  int calcscale;
  char neg;
```

```
/* Check the exponent for scale digits and convert to a long. */
if (num2->n_scale != 0)
  bc_rt_warn ("non-zero scale in exponent");
exponent = bc_num2long (num2);
if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
    bc_rt_error ("exponent too large in raise");

/* Special case if exponent is a zero. */
if (exponent == 0)
  {
    bc_free_num (result);
    *result = bc_copy_num (_one_);
    return;
  }

/* Other initializations. */
if (exponent < 0)
  {
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
  }
else
  {
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
  }

/* Set initial value of temp.  */
 power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
  {
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
  }
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
  {
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
calcscale = pwrscale + calcscale;
```

```
 bc_multiply (temp, power, &temp, calcscale);
     }
     exponent = exponent >> 1;
   }

 /* Assign the value. */
 if (neg)
   {
     bc_divide (_one_, temp, result, rscale);
     bc_free_num (&temp);
   }
 else
   {
     bc_free_num (result);
     *result = temp;
     if ((*result)->n_scale > rscale)
 (*result)->n_scale = rscale;
   }
 bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
  after the
 decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
 int rscale, cmp_res, done;
 int cscale;
 bc_num guess, guess1, point5, diff;

 /* Initial checks. */
 cmp_res = bc_compare (*num, _zero_);
 if (cmp_res < 0)
   return 0;  /* error */
 else
   {
     if (cmp_res == 0)
 {
   bc_free_num (num);
   *num = bc_copy_num (_zero_);
   return 1;
 }
   }
 cmp_res = bc_compare (*num, _one_);
```

```
if (cmp_res == 0)
  {
    bc_free_num (num);
    *num = bc_copy_num (_one_);
    return 1;
  }

/* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;


/* Calculate the initial guess. */
if (cmp_res < 0)
  {
    /* The number is between 0 and 1.  Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
  }
else
  {
    /* The number is greater than 1.  Guess should
start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
  }

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
  {
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
```

```
 {
  if (cscale < rscale+1)
    cscale = MIN (cscale*3, rscale+1);
  else
    done = TRUE;
 }
  }

 /* Assign the number and clean up. */
 bc_free_num (num);
 bc_divide (guess,_one_,num,rscale);
 bc_free_num (&guess);
 bc_free_num (&guess1);
 bc_free_num (&point5);
 bc_free_num (&diff);
 return 1;
}


/* The following routines
 provide output for bcd numbers package
  using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
 long  digit;
 struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";


/* A special output routine for "multi-character digits."  Exactly
  SIZE characters must be output for the value VAL.  If SPACE is
  non-zero, we must output one space before the number.  OUT_CHAR
  is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
```

```
 char digits[40];
 int len, ix;

 if (space) (*out_char) (' ');
 sprintf (digits, "%ld", val);
 len = strlen (digits);
 while (size > len)
   {
     (*out_char) ('0');
     size--;
   }
 for (ix=0; ix < len; ix++)
   (*out_char) (digits[ix]);
}

/*
 Output of a bcd number.  NUM is written in base O_BASE using OUT_CHAR
  as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
 char *nptr;
 int  index, fdigit, pre_space;
 stk_rec *digits, *temp;
 bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

 /* The negative sign if needed. */
 if (num->n_sign == MINUS) (*out_char) ('-');

 /* Output the number. */
 if (bc_is_zero (num))
   (*out_char) ('0');
 else
   if (o_base == 10)
     {
 /* The number is in base 10, do it the fast way. */
 nptr = num->n_value;
 if (num->n_len > 1 || *nptr != 0)
   for (index=num->n_len; index>0; index--)
```

```
    (*out_char) (BCD_CHAR(*nptr++));
else
  nptr++;

if (leading_zero && bc_is_zero (num))
  (*out_char) ('0');

/* Now the fraction. */
if (num->n_scale > 0)
  {

 (*out_char) ('.');
    for (index=0; index<num->n_scale; index++)
      (*out_char) (BCD_CHAR(*nptr++));
  }
    }
  else
    {
/* special case ... */
if (leading_zero && bc_is_zero (num))
  (*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bc_init_num (&int_part);
bc_divide (num, _one_, &int_part, 0);
bc_init_num (&frac_part);
bc_init_num (&cur_dig);
bc_init_num (&base);
bc_sub (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bc_int2num (&base, o_base);
bc_init_num (&max_o_digit);
bc_int2num (&max_o_digit, o_base-1);


/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
  {
    bc_modulo (int_part, base, &cur_dig, 0);
    temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
    temp->digit = bc_num2long (cur_dig);
    temp->next = digits;
    digits = temp;
    bc_divide
```

```
(int_part, base, &int_part, 0);
  }

/* Print the digits on the stack. */
if (digits != NULL)
  {
    /* Output the digits. */
    while (digits != NULL)
      {
 temp = digits;
 digits = digits->next;
 if (o_base <= 16)
   (*out_char) (ref_str[ (int) temp->digit]);
 else
   bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
 free (temp);
      }
  }

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
  {
    (*out_char) ('.');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
      bc_multiply (frac_part, base, &frac_part, num->n_scale);
      fdigit = bc_num2long (frac_part);
      bc_int2num (&int_part, fdigit);
      bc_sub (frac_part, int_part, &frac_part, 0);
      if (o_base <= 16)
 (*out_char) (ref_str[fdigit]);
      else {
 bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
 pre_space = 1;
      }
      bc_multiply (t_num, base, &t_num, 0);
    }

   bc_free_num (&t_num);
  }

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
```

```
    }
}
/* Convert a number NUM to a long.  The function returns only the integer
  part of the number.  For numbers that are too large to represent as
  a long, this function returns a zero.  This can be detected by checking
  the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
 long val;
 char *nptr;
 int  index;

 /* Extract the int value, ignore the fraction. */
 val = 0;
 nptr = num->n_value;
 for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
   val = val*BASE + *nptr++;

 /* Check for overflow.  If overflow, return zero. */
 if (index>0) val = 0;
 if (val < 0) val = 0;

 /* Return the value. */
 if (num->n_sign == PLUS)
   return (val);
 else
   return (-val);
}


/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num
 (num, val)
    bc_num *num;
    int val;
{
 char buffer[30];
 char *bptr, *vptr;
 int  ix = 1;
 char neg = 0;

 /* Sign. */
 if (val < 0)
```

```
  {
    neg = 1;
    val = -val;
  }

 /* Get things going. */
 bptr = buffer;
 *bptr++ = val % BASE;
 val = val / BASE;

 /* Extract remaining digits. */
 while (val != 0)
  {
    *bptr++ = val % BASE;
    val = val / BASE;
    ix++;   /* Count the digits. */
  }

 /* Make the number. */
 bc_free_num (num);
 *num = bc_new_num (ix, 0);
 if (neg) (*num)->n_sign = MINUS;

 /* Assign the digits. */
 vptr = (*num)->n_value;
 while (ix-- > 0)
   *vptr++ = *--bptr;
}

/* Convert a numbers to a string.  Base 10 only.*/

char
*num2str (num)
     bc_num num;
{
 char *str, *sptr;
 char *nptr;
 int  index, signch;

 /* Allocate the string memory. */
 signch = ( num->n_sign == PLUS ? 0 : 1 );  /* Number of sign chars. */
 if (num->n_scale > 0)
   str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);

 else
   str = (char *) malloc (num->n_len + 1 + signch);
 if (str == NULL) bc_out_of_memory();
```

```
 /* The negative sign if needed. */
 sptr = str;
 if (signch) *sptr++ = '-';

 /* Load the whole number. */
 nptr = num->n_value;
 for (index=num->n_len; index>0; index--)
   *sptr++ = BCD_CHAR(*nptr++);

 /* Now the fraction. */
 if (num->n_scale > 0)
   {
     *sptr++ = '.';
     for (index=0; index<num->n_scale; index++)
 *sptr++ = BCD_CHAR(*nptr++);
   }

 /* Terminate the string and return it! */
 *sptr = '\0';
 return (str);
}
/* Convert strings to bc numbers.  Base 10 only.*/

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
 int digits, strscale;
 char *ptr, *nptr;
 char zero_int;

 /* Prepare num. */
 bc_free_num (num);

 /* Check for valid number and count digits. */
 ptr = str;
 digits = 0;
 strscale = 0;
 zero_int = FALSE;
 if ( (*ptr == '+') || (*ptr == '-'))  ptr++;  /* Sign */
 while (*ptr == '0') ptr++;   /* Skip
 leading zeros. */
 while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
 if (*ptr == '.') ptr++;   /* decimal point */
 while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
 if ((*ptr != '\0') || (digits+strscale == 0))
```

```
  {
    *num = bc_copy_num (_zero_);
    return;
  }

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
  {
    zero_int = TRUE;
    digits = 1;
  }
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '-')
  {
    (*num)->n_sign = MINUS;
    ptr++;
  }
else
  {
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
  }
while (*ptr == '0') ptr++;   /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
  {
    *nptr++ = 0;
    digits = 0;
  }
for (;digits > 0; digits--)
  *nptr++ = CH_VAL(*ptr++);


/* Build the fractional part. */
if (strscale > 0)
  {
    ptr++;  /*
skip the decimal point! */
    for (;strscale > 0; strscale--)
*nptr++ = CH_VAL(*ptr++);
  }
}

/* pn prints the number NUM in base 10. */
```

```
static void
out_char (int c)
{
 putchar(c);
}


void
pn (num)
   bc_num num;
{
 bc_out_num (num, 10, out_char, 0);
 out_char ('\n');
}


/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
   char *name;
   unsigned char *num;
   int len;
{
 int i;
 printf ("%s=", name);
 for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
 printf ("\n");
}
```

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1.130 m4 1.4.17

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1.135 pcre 8.40

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
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1.136 openssl 1.0.2l

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1.139 libuser 0.60-7.el7_1

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1.140 ncurses 5.9-13.20130511.el7

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1.145 openssl 1.0.2k

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1.147 glib 2.50.3-3.el7

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1.148 libpkit 0.23.5-3.el7

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1.149 cracklib 2.9.0 11.el7

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<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
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It was downloaded from http://sourceforge.net/projects/cracklib

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Modifications: Added cronjob, configuration file, and man pages.

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v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

EFFECTIVE
OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't
actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
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Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use
nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct
2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
RO
Content-Length: 585
Lines: 21

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> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that

> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
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X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
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 585
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-a

1.150 sqlite 3.23.1

1.150.1 Available under license :

The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:

May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

1.151 qemu 2.4.0

1.151.1 Available under license :

NOTE! The GPL below is copyrighted by the Free Software
Foundation, but the instance of code that it refers to (/dev/bios
driver)is copyrighted by me and others who actually wrote it.

Also note that the only valid version of the GPL as far as this driver
is concerned is _this_ particular version of the license (ie v2, not
v2.2 or v3.x or whatever), unless explicitly otherwise stated.

Stefan Reinauer

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA, 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

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

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

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

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

That's all there is to it!
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
*
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/

#define TARGET_NETBSD_NR_syscall   0
#define TARGET_NETBSD_NR_exit   1
#define TARGET_NETBSD_NR_fork   2
#define TARGET_NETBSD_NR_read   3
#define TARGET_NETBSD_NR_write   4
#define TARGET_NETBSD_NR_open   5
#define TARGET_NETBSD_NR_close   6
#define TARGET_NETBSD_NR_wait4   7
#define TARGET_NETBSD_NR_compat_43_ocreat   8
#define TARGET_NETBSD_NR_link   9

```
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek    19
#define TARGET_NETBSD_NR_getpid      20
#define
 TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_compat_40_mount     21
#define TARGET_NETBSD_NR_unmount     22
#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid     25
#define TARGET_NETBSD_NR_ptrace      26
#define TARGET_NETBSD_NR_recvmsg     27
#define TARGET_NETBSD_NR_sendmsg     28
#define TARGET_NETBSD_NR_recvfrom    29
#define TARGET_NETBSD_NR_accept      30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access      33
#define TARGET_NETBSD_NR_chflags     34
#define TARGET_NETBSD_NR_fchflags    35
#define TARGET_NETBSD_NR_sync        36
#define TARGET_NETBSD_NR_kill        37
#define TARGET_NETBSD_NR_compat_43_stat43    38
#define TARGET_NETBSD_NR_getppid     39
#define TARGET_NETBSD_NR_compat_43_lstat43   40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe        42
#define TARGET_NETBSD_NR_getegid
    43
#define TARGET_NETBSD_NR_profil      44
#define TARGET_NETBSD_NR_ktrace      45
#define TARGET_NETBSD_NR_compat_13_sigaction13       46
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13     48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct        51
#define TARGET_NETBSD_NR_compat_13_sigpending13      52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13     53
```

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#define TARGET_NETBSD_NR_ioctl       54
#define TARGET_NETBSD_NR_compat_12_oreboot   55
#define TARGET_NETBSD_NR_revoke      56
#define TARGET_NETBSD_NR_symlink     57
#define TARGET_NETBSD_NR_readlink    58
#define TARGET_NETBSD_NR_execve      59
#define TARGET_NETBSD_NR_umask       60
#define TARGET_NETBSD_NR_chroot      61
#define TARGET_NETBSD_NR_compat_43_fstat43   62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo      63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize
 64
#define TARGET_NETBSD_NR_compat_12_msync     65
#define TARGET_NETBSD_NR_vfork       66
#define TARGET_NETBSD_NR_sbrk        69
#define TARGET_NETBSD_NR_sstk        70
#define TARGET_NETBSD_NR_compat_43_ommap     71
#define TARGET_NETBSD_NR_vadvise     72
#define TARGET_NETBSD_NR_munmap      73
#define TARGET_NETBSD_NR_mprotect    74
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#define TARGET_NETBSD_NR_setgroups   80
#define TARGET_NETBSD_NR_getpgrp     81
#define TARGET_NETBSD_NR_setpgid     82
#define TARGET_NETBSD_NR_setitimer   83
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#define TARGET_NETBSD_NR_compat_43_ogethostname      87
#define TARGET_NETBSD_NR_compat_43_osethostname      88
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#define TARGET_NETBSD_NR_dup2        90
#define TARGET_NETBSD_NR_fcntl
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#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket    97
#define TARGET_NETBSD_NR_connect     98
#define TARGET_NETBSD_NR_compat_43_oaccept   99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend     101
#define TARGET_NETBSD_NR_compat_43_orecv     102
#define TARGET_NETBSD_NR_compat_13_sigreturn13       103
#define TARGET_NETBSD_NR_bind        104
#define TARGET_NETBSD_NR_setsockopt  105
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#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_osigvec   108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask       110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13      111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg  113
#define TARGET_NETBSD_NR_compat_43_osendmsg  114
#define TARGET_NETBSD_NR_gettimeofday        116
#define TARGET_NETBSD_NR_getrusage
  117
#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_writev      121
#define TARGET_NETBSD_NR_settimeofday        122
#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod      124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid    126
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#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate        130
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#define TARGET_NETBSD_NR_shutdown    134
#define TARGET_NETBSD_NR_socketpair  135
#define TARGET_NETBSD_NR_mkdir       136
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#define TARGET_NETBSD_NR_utimes      138
#define TARGET_NETBSD_NR_adjtime     140
#define TARGET_NETBSD_NR_compat_43_ogetpeername      141
#define TARGET_NETBSD_NR_compat_43_ogethostid
    142
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#define TARGET_NETBSD_NR_setsid      147
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#define TARGET_NETBSD_NR_compat_20_statfs    157
#define TARGET_NETBSD_NR_compat_20_fstatfs   158
#define TARGET_NETBSD_NR_compat_30_getfh     161
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#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_osetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname 164
#define TARGET_NETBSD_NR_sysarch 165
#define TARGET_NETBSD_NR_compat_10_osemsys 169
#define TARGET_NETBSD_NR_compat_10_omsgsys 170
#define
TARGET_NETBSD_NR_compat_10_oshmsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_pwrite 174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid 181
#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seteuid 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_fpathconf 192
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libfdt which comprises the files in the libfdt/ subdirectory. These two pieces of software, although closely related, are quite distinct. dtc does not incoporate or rely on libfdt for its operation, nor vice versa. It is important that these two pieces of software have different license conditions.

As the copyright banners in each source file attest, dtc is licensed under the GNU GPL. The full text of the GPL can be found in the file entitled 'GPL' which should be included in this package. dtc code, therefore, may not be incorporated into works which do not have a GPL compatible license.

libfdt, however, is GPL/BSD dual-licensed. That is, it may be used either under the terms of the GPL, or under the terms of the 2-clause BSD license (aka the ISC license). The full terms of that license are given in the copyright
banners of each of the libfdt source files.
This is, in practice, equivalent to being BSD licensed, since the terms of the BSD license are strictly more permissive than the GPL.

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

This does mean that libfdt code could be "stolen" - say, included in a proprietary fimware and extended without contributing those extensions back to the libfdt mainline. While I hope that doesn't happen, I believe the goal of allowing libfdt to be widely used is more important than avoiding that. libfdt is quite small, and hardly rocket science; so the incentive for such impolite behaviour is small, and the inconvenience caused therby is not dire.

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

IMPORTANT It's intended that all of libfdt as released remain permissively licensed this way. Therefore only contributions which

are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
Slirp was written by Danny Gasparovski.
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```
/*
* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
            /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink    10
            /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir    13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat    18
            /* 19 is old lseek */
```

```
#define TARGET_FREEBSD_NR_getpid    20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount   22
#define TARGET_FREEBSD_NR_setuid
   23
#define TARGET_FREEBSD_NR_getuid    24
#define TARGET_FREEBSD_NR_geteuid   25
#define TARGET_FREEBSD_NR_ptrace    26
#define TARGET_FREEBSD_NR_recvmsg   27
#define TARGET_FREEBSD_NR_sendmsg   28
#define TARGET_FREEBSD_NR_recvfrom  29
#define TARGET_FREEBSD_NR_accept    30
#define TARGET_FREEBSD_NR_getpeername   31
#define TARGET_FREEBSD_NR_getsockname   32
#define TARGET_FREEBSD_NR_access    33
#define TARGET_FREEBSD_NR_chflags   34
#define TARGET_FREEBSD_NR_fchflags  35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
            /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid   39
            /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup   41
#define TARGET_FREEBSD_NR_pipe  42
#define TARGET_FREEBSD_NR_getegid   43
#define TARGET_FREEBSD_NR_profil    44
#define TARGET_FREEBSD_NR_ktrace    45
            /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid    47
            /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin
 49
#define TARGET_FREEBSD_NR_setlogin  50
#define TARGET_FREEBSD_NR_acct  51
            /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack   53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot    55
#define TARGET_FREEBSD_NR_revoke    56
#define TARGET_FREEBSD_NR_symlink   57
#define TARGET_FREEBSD_NR_readlink  58
#define TARGET_FREEBSD_NR_execve    59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot    61
            /* 62 is old fstat */
            /* 63 is old getkerninfo */
            /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
```

```
#define TARGET_FREEBSD_NR_vfork 66
        /* 67 is obsolete vread */
        /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk  70
        /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise   72
#define TARGET_FREEBSD_NR_munmap    73
#define TARGET_FREEBSD_NR_mprotect  74
#define
 TARGET_FREEBSD_NR_madvise   75
        /* 76 is obsolete vhangup */
        /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore   78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp   81
#define TARGET_FREEBSD_NR_setpgid   82
#define TARGET_FREEBSD_NR_setitimer 83
        /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon    85
#define TARGET_FREEBSD_NR_getitimer 86
        /* 87 is old gethostname */
        /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select    93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority   96
#define TARGET_FREEBSD_NR_socket    97
#define TARGET_FREEBSD_NR_connect   98
        /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority   100
        /* 101 is old send */

    /* 102 is old recv */
        /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt    105
#define TARGET_FREEBSD_NR_listen    106
        /* 107 is obsolete vtimes */
        /* 108 is old sigvec */
        /* 109 is old sigblock */
        /* 110 is old sigsetmask */
        /* 111 is old sigsuspend */
        /* 112 is old sigstack */
        /* 113 is old recvmsg */
```

```
        /* 114 is old sendmsg */
        /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev    121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown    123
#define TARGET_FREEBSD_NR_fchmod    124
        /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid  126
#define TARGET_FREEBSD_NR_setregid
 127
#define TARGET_FREEBSD_NR_rename    128
        /* 129 is old truncate */
        /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo    132
#define TARGET_FREEBSD_NR_sendto    133
#define TARGET_FREEBSD_NR_shutdown  134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes    138
        /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime   140
        /* 141 is old getpeername */
        /* 142 is old gethostid */
        /* 143 is old sethostid */
        /* 144 is old getrlimit */
        /* 145 is old setrlimit */
        /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg    146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid    147
#define TARGET_FREEBSD_NR_quotactl  148
        /* 149 is old quota */
        /*
 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc    155
        /* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs   157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs  158
#define TARGET_FREEBSD_NR_lgetfh    160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname    162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname    163
```

```
#define TARGET_FREEBSD_NR_freebsd4_uname    164
#define TARGET_FREEBSD_NR_sysarch   165
#define TARGET_FREEBSD_NR_rtprio    166
#define TARGET_FREEBSD_NR_semsys    169
#define TARGET_FREEBSD_NR_msgsys    170
#define TARGET_FREEBSD_NR_shmsys    171
#define TARGET_FREEBSD_NR_freebsd6_pread    173
#define TARGET_FREEBSD_NR_freebsd6_pwrite   174
#define TARGET_FREEBSD_NR_setfib    175
#define TARGET_FREEBSD_NR_ntp_adjtime   176
#define TARGET_FREEBSD_NR_setgid    181
#define TARGET_FREEBSD_NR_setegid   182
#define TARGET_FREEBSD_NR_seteuid   183
#define TARGET_FREEBSD_NR_stat
  188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf  191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek    199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate    201
#define TARGET_FREEBSD_NR___sysctl  202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock   204
#define TARGET_FREEBSD_NR_undelete  205
#define TARGET_FREEBSD_NR_futimes   206
#define TARGET_FREEBSD_NR_getpgid   207
#define TARGET_FREEBSD_NR_poll  209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget    221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl   224
#define TARGET_FREEBSD_NR_msgget
    225
#define TARGET_FREEBSD_NR_msgsnd    226
#define TARGET_FREEBSD_NR_msgrcv    227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl   229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget    231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
```

```
#define TARGET_FREEBSD_NR_clock_getres  234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime    237
#define TARGET_FREEBSD_NR_ktimer_gettime    238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime   248
#define TARGET_FREEBSD_NR_minherit  250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll  252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown    254
#define TARGET_FREEBSD_NR_aio_read  255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio
   257
#define TARGET_FREEBSD_NR_getdents  272
#define TARGET_FREEBSD_NR_lchmod    274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes   276
#define TARGET_FREEBSD_NR_netbsd_msync  277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat    279
#define TARGET_FREEBSD_NR_nlstat    280
#define TARGET_FREEBSD_NR_preadv    289
#define TARGET_FREEBSD_NR_pwritev   290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen    298
#define TARGET_FREEBSD_NR_fhstat    299
#define TARGET_FREEBSD_NR_modnext   300
#define TARGET_FREEBSD_NR_modstat   301
#define TARGET_FREEBSD_NR_modfnext  302
#define TARGET_FREEBSD_NR_modfind   303
#define TARGET_FREEBSD_NR_kldload   304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind   306
#define TARGET_FREEBSD_NR_kldnext   307
#define TARGET_FREEBSD_NR_kldstat   308
#define TARGET_FREEBSD_NR_kldfirstmod   309
#define TARGET_FREEBSD_NR_getsid
   310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
        /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return    314
#define TARGET_FREEBSD_NR_aio_suspend   315
#define TARGET_FREEBSD_NR_aio_cancel    316
```

```
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write    319
#define TARGET_FREEBSD_NR_olio_listio   320
#define TARGET_FREEBSD_NR_yield 321
            /* 322 is obsolete thr_sleep */
            /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall  324
#define TARGET_FREEBSD_NR_munlockall    325
#define TARGET_FREEBSD_NR___getcwd  326
#define TARGET_FREEBSD_NR_sched_setparam    327
#define TARGET_FREEBSD_NR_sched_getparam    328
#define TARGET_FREEBSD_NR_sched_setscheduler    329
#define TARGET_FREEBSD_NR_sched_getscheduler    330
#define TARGET_FREEBSD_NR_sched_yield   331
#define TARGET_FREEBSD_NR_sched_get_priority_max    332
#define
 TARGET_FREEBSD_NR_sched_get_priority_min    333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace    335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym    337
#define TARGET_FREEBSD_NR_jail  338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask   340
#define TARGET_FREEBSD_NR_sigsuspend    341
#define TARGET_FREEBSD_NR_freebsd4_sigaction    342
#define TARGET_FREEBSD_NR_sigpending    343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn    344
#define TARGET_FREEBSD_NR_sigtimedwait  345
#define TARGET_FREEBSD_NR_sigwaitinfo   346
#define TARGET_FREEBSD_NR___acl_get_file    347
#define TARGET_FREEBSD_NR___acl_set_file    348
#define TARGET_FREEBSD_NR___acl_get_fd  349
#define TARGET_FREEBSD_NR___acl_set_fd  350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd   352
#define TARGET_FREEBSD_NR___acl_aclcheck_file   353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd
 354
#define TARGET_FREEBSD_NR_extattrctl    355
#define TARGET_FREEBSD_NR_extattr_set_file  356
#define TARGET_FREEBSD_NR_extattr_get_file  357
#define TARGET_FREEBSD_NR_extattr_delete_file   358
#define TARGET_FREEBSD_NR_aio_waitcomplete  359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue    362
```

```
#define TARGET_FREEBSD_NR_kevent    363
#define TARGET_FREEBSD_NR_extattr_set_fd    371
#define TARGET_FREEBSD_NR_extattr_get_fd    372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess   376
#define TARGET_FREEBSD_NR_afs3_syscall  377
#define TARGET_FREEBSD_NR_nmount    378
#define TARGET_FREEBSD_NR___mac_get_proc    384
#define TARGET_FREEBSD_NR___mac_set_proc    385
#define TARGET_FREEBSD_NR___mac_get_fd  386
#define TARGET_FREEBSD_NR___mac_get_file    387
#define TARGET_FREEBSD_NR___mac_set_fd  388
#define TARGET_FREEBSD_NR___mac_set_file    389
#define
 TARGET_FREEBSD_NR_kenv  390
#define TARGET_FREEBSD_NR_lchflags  391
#define TARGET_FREEBSD_NR_uuidgen   392
#define TARGET_FREEBSD_NR_sendfile  393
#define TARGET_FREEBSD_NR_mac_syscall   394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs    396
#define TARGET_FREEBSD_NR_fstatfs   397
#define TARGET_FREEBSD_NR_fhstatfs  398
#define TARGET_FREEBSD_NR_ksem_close    400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait  403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink   406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy  408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link    410
#define TARGET_FREEBSD_NR___mac_set_link    411
#define TARGET_FREEBSD_NR_extattr_set_link  412
#define TARGET_FREEBSD_NR_extattr_get_link  413
#define TARGET_FREEBSD_NR_extattr_delete_link
  414
#define TARGET_FREEBSD_NR___mac_execve  415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext    421
#define TARGET_FREEBSD_NR_setcontext    422
#define TARGET_FREEBSD_NR_swapcontext   423
#define TARGET_FREEBSD_NR_swapoff   424
#define TARGET_FREEBSD_NR___acl_get_link    425
```

```
#define TARGET_FREEBSD_NR___acl_set_link    426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link   428
#define TARGET_FREEBSD_NR_sigwait   429
#define TARGET_FREEBSD_NR_thr_create    430
#define TARGET_FREEBSD_NR_thr_exit  431
#define TARGET_FREEBSD_NR_thr_self  432
#define TARGET_FREEBSD_NR_thr_kill  433
#define TARGET_FREEBSD_NR__umtx_lock    434
#define TARGET_FREEBSD_NR__umtx_unlock  435
#define TARGET_FREEBSD_NR_jail_attach   436
#define TARGET_FREEBSD_NR_extattr_list_fd   437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define
 TARGET_FREEBSD_NR_ksem_timedwait    441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake  443
#define TARGET_FREEBSD_NR_kldunloadf    444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon   446
#define TARGET_FREEBSD_NR_getauid   447
#define TARGET_FREEBSD_NR_setauid   448
#define TARGET_FREEBSD_NR_getaudit  449
#define TARGET_FREEBSD_NR_setaudit  450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl  453
#define TARGET_FREEBSD_NR__umtx_op  454
#define TARGET_FREEBSD_NR_thr_new   455
#define TARGET_FREEBSD_NR_sigqueue  456
#define TARGET_FREEBSD_NR_kmq_open  457
#define TARGET_FREEBSD_NR_kmq_setattr   458
#define TARGET_FREEBSD_NR_kmq_timedreceive  459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify    461
#define TARGET_FREEBSD_NR_kmq_unlink    462
#define TARGET_FREEBSD_NR_abort2    463
#define TARGET_FREEBSD_NR_thr_set_name
 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff  471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg  472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov  473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg  474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite    476
```

```
#define TARGET_FREEBSD_NR_mmap  477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate  479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open  482
#define TARGET_FREEBSD_NR_shm_unlink    483
#define TARGET_FREEBSD_NR_cpuset    484
#define TARGET_FREEBSD_NR_cpuset_setid  485
#define TARGET_FREEBSD_NR_cpuset_getid  486
#define TARGET_FREEBSD_NR_cpuset_getaffinity    487
#define TARGET_FREEBSD_NR_cpuset_setaffinity    488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat  490
#define TARGET_FREEBSD_NR_fchownat  491
#define
 TARGET_FREEBSD_NR_fexecve   492
#define TARGET_FREEBSD_NR_fstatat   493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat    495
#define TARGET_FREEBSD_NR_mkdirat   496
#define TARGET_FREEBSD_NR_mkfifoat  497
#define TARGET_FREEBSD_NR_mknodat   498
#define TARGET_FREEBSD_NR_openat    499
#define TARGET_FREEBSD_NR_readlinkat    500
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#define TARGET_FREEBSD_NR_posix_openpt  504
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#define TARGET_FREEBSD_NR_jail_get  506
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#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new   514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter
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#define TARGET_FREEBSD_NR_cap_getmode   517
#define TARGET_FREEBSD_NR_pdfork    518
#define TARGET_FREEBSD_NR_pdkill    519
#define TARGET_FREEBSD_NR_pdgetpid  520
#define TARGET_FREEBSD_NR_pselect   522
#define TARGET_FREEBSD_NR_getloginclass 523
```

```
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct    525
#define TARGET_FREEBSD_NR_rctl_get_rules    526
#define TARGET_FREEBSD_NR_rctl_get_limits   527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule  529
#define TARGET_FREEBSD_NR_posix_fallocate   530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL    532
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Index: debug.c
===
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v

```
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+         x86emu_dump_xregs();
+ } else {
+         x86emu_dump_regs();
+ }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
      printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-    printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
   TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
       M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
```

```
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
   /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+      case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+      case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
+      case 0xce:
```

```
+       DECODE_PRINTF("ESI\n");
+       M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+       break;
+     case 0xcf:
+       DECODE_PRINTF("EDI\n");
+       M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+       break;
+   }
+   TRACE_AND_STEP();
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
```

```
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
```

```
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
       }
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          val1 = fetch_data_byte(M.x86.R_SI);
          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+
+            M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2644,8 +2663,8 @@
```

```
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
         }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_SI += inc;
         M.x86.R_DI += inc;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2741,11 +2765,16 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /*
 move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
```

```
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2783,9 +2812,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+          M.x86.R_ECX = 0;

     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2795,6 +2826,8 @@
         store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
      }
      M.x86.R_DI += inc;
+      if (M.x86.intr & INTR_HALTED)
+         break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2817,11 +2850,16 @@
      inc = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+        else
+           M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
+        if (M.x86.intr & INTR_HALTED)
+
          break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2859,9 +2897,11 @@
```

```
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2871,6 +2911,8 @@
          M.x86.R_AX = fetch_data_word(M.x86.R_SI);
       }
       M.x86.R_SI += inc;
+       if (M.x86.intr & INTR_HALTED)
+          break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2894,26 +2936,36 @@
      inc = 1;
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /*
 REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
            break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
      M.x86.mode &= ~SYSMODE_PREFIX_REPE;
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
      /* REPNE  */
-       /* move them until CX is ZERO. */
```

```
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
             break;          /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
             break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
```

```
       /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
             break;         /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9 @@
 {
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
```

```
}
@@ -3471,10 +3533,10 @@
   DECODE_PRINTF("RETF\t");
   imm = fetch_word_imm();
   DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3488,10 +3550,10 @@
 {
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
 }
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
```

```
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
```

```
   M.x86.R_IP = ip;
   M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
   offset = (s8)fetch_byte_imm();
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
   TRACE_AND_STEP();
   M.x86.R_IP = target;
   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
   DECODE_PRINTF("REPNE\n");
   TRACE_AND_STEP();
   M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
 }
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
 }
@@ -5013,12 +5093,14 @@
           break;
       case 4:         /* jmp word ptr ... */
           destval = fetch_data_word(destoffset);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           break;
       case 5:         /* jmp far ptr ... */
           destval = fetch_data_word(destoffset);
           destval2 = fetch_data_word(destoffset + 2);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
```

```
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                     M.x86.R_ECX : M.x86.R_CX);
-
         while (count--) {
          single_in(size);
          M.x86.R_DI += inc;
          }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
```

```
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* out until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                    M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
         single_out(size);
         M.x86.R_SI += inc;
         }
       M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
       }
       M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

/*****************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
```

```
- return inw(addr);
+ return 0;
}

/*****************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/*****************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
       printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
```

```
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()      (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()     0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
      0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()     0
# define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                             \
 if (DEBUG_TRACECALL())                           \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                     \
+# define RETURN_TRACE(u,v,w,x,s)                 \
 if (DEBUG_TRACECALLREGS())       \
  x86emu_dump_regs();                             \
 if (DEBUG_TRACECALL())                           \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                   \
+   if (DEBUG_TRACEJMPREGS()) \
```

```
+      x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
 define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
       SYSMODE_SEGOVR_GS     | \
      SYSMODE_SEGOVR_SS     | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR    | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
    */
   u32                   mode;
   volatile int              intr;   /* mask of pending interrupts */
- int                   debug;
+    volatile int                    debug;
#ifdef DEBUG
- int                   check;
```

```
+    int                    check;
     u16                    saved_ip;
     u16                    saved_cs;
     int                    enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+,
this does *not* cover the so-called "standalone" applications that
use U-Boot services by means of the jump table provided by U-Boot
exactly for this purpose - this is merely considered normal use of
U-Boot, and does *not* fall under the heading of "derived work".

 The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does

not fall under the heading of "derived work".
-- Wolfgang Denk
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by me and others who actually wrote it.
-- Wolfgang Denk

Like many other projects, U-Boot has a tradition of including big blocks of License headers in all files. This not only blows up the source code with mostly redundant information, but also makes it very difficult to generate License Clearing Reports. An additional problem is that even the same licenses are referred to by a number of slightly varying text blocks (full, abbreviated, different indentation, line wrapping and/or white space, with obsolete address information, ...) which makes automatic processing a nightmare.

To make this easier, such license headers in the source files will be replaced with a single line reference to Unique License Identifiers as defined by the Linux Foundation's SPDX project [1]. For example, in a source file the full "GPL v2.0 or later" header text will be replaced by a single line:

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properly with a modified version of the library, if
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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

That's all there is to it!

```
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# *
# * Contributors:
# *     IBM Corporation - initial implementation
# ****************************************************************************/
#!/bin/bash

#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...

if [ ! -x $SVN ]; then
 echo "subversion executable not found!"
 exit -1
fi
if [ ! -x $PATCH ]; then
 echo "patch executable not found!"
 exit -1
fi
if [ ! -r $DIFF_FILE ]; then
 echo "diff file $DIFF_FILE not found!"
 exit -1
fi

# download the x86emu sources from LinuxBIOS subversion
```

```
#revision known to work...
REV=496

echo "Checking
 out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff


echo "done"
exit 0
```

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Version 3, 29 June 2007

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Defining a subclass of a class defined by the Library is
deemed a mode
of using an interface provided by the Library.

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*
*   @(#)mman.h   8.2 (Berkeley) 1/9/95
* $FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp $
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND
*/
#define TARGET_FREEBSD_MAP_STACK   0x0400 /* region grows down, like a stack */
#define
 TARGET_FREEBSD_MAP_NOSYNC   0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK   0x1ff7

/* $NetBSD: mman.h,v 1.42 2008/11/18 22:13:49 ad Exp $ */

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*
*     @(#)mman.h      8.2 (Berkeley) 1/9/95
*/
#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400 /* attempt
 hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK         0x2000  /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

/*      $OpenBSD: mman.h,v 1.18 2003/07/21 22:52:19 tedu Exp $  */
/*      $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $    */

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

#define TARGET_OPENBSD_MAP_INHERIT      0x0080  /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND     0x0100  /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED     0x0400  /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK     0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7
```

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```
# Default configuration for sparc-bsd-user
/*      $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $      */
/*      $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $   */

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*
*      @(#)errno.h     8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM          1          /* Operation not permitted */
#define TARGET_ENOENT         2          /* No such file or directory */
#define TARGET_ESRCH          3          /* No such process */
#define TARGET_EINTR          4          /* Interrupted system call */
#define TARGET_EIO            5          /* Input/output error */
#define TARGET_ENXIO          6          /* Device not configured */
#define TARGET_E2BIG          7          /* Argument list too long */
```

```
#define TARGET_ENOEXEC        8             /* Exec format error */
#define TARGET_EBADF          9            /* Bad file descriptor */
#define TARGET_ECHILD         10            /* No child processes */
#define TARGET_EDEADLK        11            /* Resource deadlock avoided */
                              /* 11 was EAGAIN */
#define
 TARGET_ENOMEM         12           /* Cannot allocate memory */
#define TARGET_EACCES         13            /* Permission denied */
#define TARGET_EFAULT         14            /* Bad address */
#define TARGET_ENOTBLK        15            /* Block device required */
#define TARGET_EBUSY          16           /* Device busy */
#define TARGET_EEXIST         17           /* File exists */
#define TARGET_EXDEV          18            /* Cross-device link */
#define TARGET_ENODEV         19            /* Operation not supported by device */
#define TARGET_ENOTDIR        20            /* Not a directory */
#define TARGET_EISDIR         21           /* Is a directory */
#define TARGET_EINVAL         22            /* Invalid argument */
#define TARGET_ENFILE         23           /* Too many open files in system */
#define TARGET_EMFILE         24            /* Too many open files */
#define TARGET_ENOTTY         25            /*
 Inappropriate ioctl for device */
#define TARGET_ETXTBSY        26            /* Text file busy */
#define TARGET_EFBIG          27           /* File too large */
#define TARGET_ENOSPC         28            /* No space left on device */
#define TARGET_ESPIPE         29           /* Illegal seek */
#define TARGET_EROFS          30           /* Read-only file system */
#define TARGET_EMLINK         31            /* Too many links */
#define TARGET_EPIPE          32           /* Broken pipe */

/* math software */
#define TARGET_EDOM           33           /* Numerical argument out of domain */
#define TARGET_ERANGE         34            /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN         35           /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK    EAGAIN        /* Operation would block */
#define TARGET_EINPROGRESS    36           /* Operation now in progress */
#define TARGET_EALREADY
 37           /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38           /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ    39           /* Destination address required */
#define TARGET_EMSGSIZE 40           /* Message too long */
#define TARGET_EPROTOTYPE      41           /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT     42           /* Protocol not available */
#define TARGET_EPROTONOSUPPORT  43           /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT  44           /* Socket type not supported */
```

```
#define TARGET_EOPNOTSUPP       45              /* Operation not supported */
#define TARGET_EPFNOSUPPORT     46              /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT     47              /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE       48              /* Address already in use */
#define
 TARGET_EADDRNOTAVAIL    49              /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50              /* Network is down */
#define TARGET_ENETUNREACH      51              /* Network is unreachable */
#define TARGET_ENETRESET        52              /* Network dropped connection on reset */
#define TARGET_ECONNABORTED     53              /* Software caused connection abort */
#define TARGET_ECONNRESET       54              /* Connection reset by peer */
#define TARGET_ENOBUFS          55              /* No buffer space available */
#define TARGET_EISCONN          56              /* Socket is already connected */
#define TARGET_ENOTCONN 57              /* Socket is not connected */
#define TARGET_ESHUTDOWN        58              /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS     59              /* Too many references: can't splice */
#define TARGET_ETIMEDOUT        60              /* Operation timed
 out */
#define TARGET_ECONNREFUSED     61              /* Connection refused */

#define TARGET_ELOOP            62              /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG     63              /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN        64              /* Host is down */
#define TARGET_EHOSTUNREACH     65              /* No route to host */
#define TARGET_ENOTEMPTY        66              /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67              /* Too many processes */
#define TARGET_EUSERS           68              /* Too many users */
#define TARGET_EDQUOT           69              /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE           70              /* Stale NFS file handle */
#define TARGET_EREMOTE          71              /* Too many levels of remote in path */
#define TARGET_EBADRPC          72              /* RPC struct is bad */
#define TARGET_ERPCMISMATCH
    73              /* RPC version wrong */
#define TARGET_EPROGUNAVAIL     74              /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH    75              /* Program version wrong */
#define TARGET_EPROCUNAVAIL     76              /* Bad procedure for program */

#define TARGET_ENOLCK           77              /* No locks available */
#define TARGET_ENOSYS           78              /* Function not implemented */
```

```
#define TARGET_EFTYPE          79          /* Inappropriate file type or format */
#define TARGET_EAUTH           80          /* Authentication error */
#define TARGET_ENEEDAUTH       81          /* Need authenticator */
#define TARGET_EIPSEC          82          /* IPsec processing failure */
#define TARGET_ENOATTR         83          /* Attribute not found */
#define TARGET_EILSEQ          84          /* Illegal byte sequence */
#define TARGET_ENOMEDIUM       85          /* No medium found */
#define TARGET_EMEDIUMTYPE     86
          /* Wrong Medium Type */
#define TARGET_EOVERFLOW       87          /* Conversion overflow */
#define TARGET_ECANCELED       88          /* Operation canceled */
#define TARGET_EIDRM           89          /* Identifier removed */
#define TARGET_ENOMSG          90          /* No message of desired type */
#define TARGET_ELAST           90          /* Must be equal largest errno */
```

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```
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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
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{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op,
 "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
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{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL,
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{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
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{ TARGET_FREEBSD_NR_extattr_get_file,
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{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
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{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
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{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen,
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{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL
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{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
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```
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{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
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{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
```

{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
NULL, NULL },
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```
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# *****************************************************************************/

ifndef TOP
 TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
 export TOP
```

```
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)


all :
 for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
 for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done
# Default configuration for sparc64-bsd-user
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# * Contributors:
# *     IBM Corporation - initial implementation
# ********************************************************************************/

ifndef TOP
 TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
 export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS  =
ASFLAGS  = -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS  = -UDEBUG -m64 -I. -I./include -I./include/x86emu \
   -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \
   -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
   -ffreestanding -Wall -Wno-unused

X86EMU_OBJS =
```

```
 debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
  $(CC) $(ASFLAGS) -c -o $@  $^

%.o: %.c
  $(CC) $(CFLAGS) -c -o $@ $^

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
 $(AR) -rc $@ $^
 $(RANLIB) $@

clean:
 $(RM) *.o *.i *.s libx86emu.a

distclean: clean
/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/*
* System call numbers.
*
* created from;        OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid
   23
#define TARGET_OPENBSD_NR_getuid      24
```

```
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin
  50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack        53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
```

```
#define TARGET_OPENBSD_NR_getitimer
  86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket      97
#define TARGET_OPENBSD_NR_connect     98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn   103
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_listen      106
#define TARGET_OPENBSD_NR_sigsuspend  111
#define TARGET_OPENBSD_NR_gettimeofday        116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_settimeofday        122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
#define TARGET_OPENBSD_NR_setreuid    126
#define TARGET_OPENBSD_NR_setregid    127
#define TARGET_OPENBSD_NR_rename
    128
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkfifo      132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown    134
#define TARGET_OPENBSD_NR_socketpair  135
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc      155
#define TARGET_OPENBSD_NR_getfh       161
#define TARGET_OPENBSD_NR_sysarch     165
#define TARGET_OPENBSD_NR_pread       173
#define TARGET_OPENBSD_NR_pwrite      174
#define TARGET_OPENBSD_NR_setgid      181
#define TARGET_OPENBSD_NR_setegid     182
#define TARGET_OPENBSD_NR_seteuid     183
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv   185
```

```
#define TARGET_OPENBSD_NR_lfs_segclean        186
#define TARGET_OPENBSD_NR_lfs_segwait
 187
#define TARGET_OPENBSD_NR_pathconf    191
#define TARGET_OPENBSD_NR_fpathconf   192
#define TARGET_OPENBSD_NR_swapctl     193
#define TARGET_OPENBSD_NR_getrlimit   194
#define TARGET_OPENBSD_NR_setrlimit   195
#define TARGET_OPENBSD_NR_getdirentries       196
#define TARGET_OPENBSD_NR_mmap        197
#define TARGET_OPENBSD_NR___syscall   198
#define TARGET_OPENBSD_NR_lseek       199
#define TARGET_OPENBSD_NR_truncate    200
#define TARGET_OPENBSD_NR_ftruncate   201
#define TARGET_OPENBSD_NR___sysctl    202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     206
#define TARGET_OPENBSD_NR_getpgid     207
#define TARGET_OPENBSD_NR_xfspioctl   208
#define TARGET_OPENBSD_NR_semget      221
#define TARGET_OPENBSD_NR_msgget      225
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime
    232
#define TARGET_OPENBSD_NR_clock_settime       233
#define TARGET_OPENBSD_NR_clock_getres        234
#define TARGET_OPENBSD_NR_nanosleep   240
#define TARGET_OPENBSD_NR_minherit    250
#define TARGET_OPENBSD_NR_rfork       251
#define TARGET_OPENBSD_NR_poll        252
#define TARGET_OPENBSD_NR_issetugid   253
#define TARGET_OPENBSD_NR_lchown      254
#define TARGET_OPENBSD_NR_getsid      255
#define TARGET_OPENBSD_NR_msync       256
#define TARGET_OPENBSD_NR_pipe        263
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#define TARGET_OPENBSD_NR_preadv      267
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#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs
   309

/* syscall flags from machine/trap.h */

/*      $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $       */
/*      $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */

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1.153 libpwquality 1.2.3-4.el7

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

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

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with the Library (or with a work based on the Library) on a volume of
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subsequent copies and derivative works made from that copy.

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

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application

to use the modified definitions.)

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

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

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

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

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

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Library side-by-side in a single library together with other library
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
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b) Give prominent notice with the combined library of the fact
that part of it is a work based on the
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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

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Version 3, 29 June 2007

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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

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

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a

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

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

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
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from the Corresponding Source
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1.160 bzip2 1.0.6 13.el7

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Julian Seward, jseward@bzip.org
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1.161 libcap-ng 0.7.5 4.el7

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1.162 keyutils 1.5.8 3.el7

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1.163 ncurses 6.0

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

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

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THE BASIC LIBRARY FUNCTIONS

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1.166 rsync 3.1.3

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1.167 glibc 2.28

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@item
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History of the software
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://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 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 (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
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2.0	1.6	2000	BeOpen.com	no
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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Mersenne Twister

The :mod:`_random` module includes code based on a download from
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the verbatim comments from the original code::

A C-program
for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets

The :mod:`socket` module uses the
functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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The code is derived from the text of the RFC, including the test suite
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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version is still 5 times faster, though.
- Arguments more compliant with Python standard

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zlib

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
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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
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In 1995, Guido continued his work on Python at the Corporation for National
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In May 2000, Guido and the Python core development team moved to BeOpen.com to
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+---+---+---+---+---+
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+---+---+---+---+---+
| 1.6 | 1.5.2 | 2000 | CNRI | no |
+---+---+---+---+---+
|
2.0 | 1.6 | 2000 | BeOpen.com | no |
+---+---+---+---+---+
| 1.6.1 | 1.6 | 2001 | CNRI | no |
+---+---+---+---+---+
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
+---+---+---+---+---+
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
+---+---+---+---+---+
| 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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Mersenne Twister

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A C-program
for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The :mod:`socket` module uses the
functions, :func:`getaddrinfo`, and
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
text is available at
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The code is derived from the text of the RFC, including the test suite
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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1.171 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.172 net-snmp 5.8

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#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
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#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
```

src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From
strings/apr_snprintf.c:

*
* cvt - IEEE floating point formatting routines.
*   Derived from UNIX V7, Copyright(C) Caldera International Inc.
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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh,
 admin/check-style-common.awk,
 admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
 except the first one, were first implemented in the Buildtool project.
 They were later adapted to be part of Boost.Process and, during that
 process, the shell script was created.

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==========
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
   <xsl:text>
</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '
')"/>
   <xsl:if test="translate($rest, '	 ', '')">

     <xsl:call-template name="isc.copyright.format">
       <xsl:with-param name="text" select="$rest"/>
     </xsl:call-template>

```
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
     <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
   <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
   </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

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

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1.180 sqlite 3.28.0

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1.182 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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1.183 cpio 2.12

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1.185 dmidecode 3.5

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1.186 e2fsprogs 1.43

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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

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-
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Theodore Ts'o
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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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Gnomovision version 69, Copyright (C) year name of author
Gnomovision
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The hypothetical commands `show w' and `show c' should show the appropriate
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is
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Preamble

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

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

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

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

works together with the library.

Note that it is possible for a library to be covered by the ordinary
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addressed
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prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

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

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
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interface definition files, plus the scripts used to control compilation
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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However, linking a "work that uses the Library" with the Library

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or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy
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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

That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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DAMAGE.
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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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DAMAGE.
#
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)
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/
```

From the original distribution:

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This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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1.187 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.188 zlib 1.2.7

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1.189 coreutils 8.22

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1.192 libssh 0.18

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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.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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****
History and License
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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for National
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In May 2000, Guido and the Python core development team moved to BeOpen.com to
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+================+==============+============+============+=================+
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+----------------+--------------+------------+------------+-----------------+
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
+----------------+--------------+------------+------------+-----------------+
| 1.6 | 1.5.2 | 2000 | CNRI | no |
+----------------+--------------+------------+------------+-----------------+
|
 2.0 | 1.6 | 2000 | BeOpen.com | no |
+----------------+--------------+------------+------------+-----------------+
| 1.6.1 | 1.6 | 2001 | CNRI | no |
+----------------+--------------+------------+------------+-----------------+

| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
+---------------+-------------+-----------+-----------+----------------+
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
+---------------+-------------+-----------+-----------+----------------+
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
+---------------+-------------+-----------+-----------+----------------+
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
+---------------+-------------+-----------+-----------+----------------+
| 2.1.3
| 2.1.2 | 2002 | PSF | yes |
+---------------+-------------+-----------+-----------+----------------+
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |
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Mersenne Twister

The :mod:`_random` module includes code based on a download from
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the verbatim comments from the
original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

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

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Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard

XML Remote Procedure Calls

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Select kqueue

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The file :file:`Python/pyhash.c` contains Marek
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Original location:
  https://github.com/majek/csiphash/

Solution inspired by code from:
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  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson
(https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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1.196 tcl 8.3.0

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1.197 tcl 8.3.3

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1.198 zlib 1.2.1.2

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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
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1.211 elfutils 0.168-8.el7

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<td width="20%" align="center">
Home
</td>
<td width="40%" align="right" valign="top">Updated SQLite Version</td>
</tr>
</table>

</body>
</html>

1.213 tcl 8.6.1

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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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```

1.218 foxtrot-core 4.0

1.219 kerberos 1.16

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c

lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
 <head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <title>MIT Kerberos License information &amp;#8212; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT:    './',
      VERSION:     '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
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src="_static/doctools.js"></script>
  <link rel="author" title="About these documents" href="about.html" />
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 </head>
 <body>
  <div class="header-wrapper">
     <div class="header">


        <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

        <div class="rel">

     <a href="index.html" title="Full Table of Contents"
        accesskey="C">Contents</a> |
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<pre>lib<span
class="o">/gssapi/<span
class="n">generic/gssapi_err_generic<span
class="o">.et
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_accept_sec_context.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_acquire_cred.c
lib/<span

class="n">gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/<span

class="n">g_inquire_cred.c
lib/gssapi<span
class="o">/mechglue<span
class="o">/g_inquire_names.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_process_context.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_buffer.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_cred.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_name<span
class="o">.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_oid_set.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_seal.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_sign.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_store_cred.<span
class="n">c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_unseal.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_userok.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_utils.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_verify.c
lib<span
class="o">/gssapi/<span
class="n">mechglue/gssd_pname_to_uid<span
class="o">.c
lib/gssapi<span
class="o">/mechglue/<span

class="n">mglueP.h
lib/gssapi<span
class="o">/mechglue/<span
class="n">oid_ops.c
lib/gssapi<span
class="o">/spnego/<span
class="n">gssapiP_spnego.h
lib/<span
class="n">gssapi/spnego<span
class="o">/spnego_mech.c
</pre>

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the following new or changed files:
<pre>include<span
class="o">/iprop_hdr.h
kadmin/server<span
class="o">/ipropd_svc.c
lib/kdb/<span
class="n">iprop.x
lib/kdb/<span
class="n">kdb_convert<span
class="o">.c
lib/kdb/<span
class="n">kdb_log.c
lib/kdb/<span
class="n">kdb_log.h
lib/krb5<span
class="o">/error_tables/<span
class="n">kdb5_err.et
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class="o">.c
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.. parsed-literal::

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c

lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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.. parsed-literal::

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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      VERSION:     '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c

lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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import os
import sys
import re

def warn(fname, ln, msg):
  print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
  return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations.  Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
  text_seen = False
  is_license = False
  for line in comment:
    if not is_license and indicates_license(line):
      is_license = True
      if text_seen:
        warn(fname, ln, 'License begins after first
 line of comment')
      elif code_seen:
        warn(fname, ln, 'License after code')
      elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
      break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
      text_seen = True
  return is_license

def check_file(lines, fname):
  # Skip emacs mode line if present.
  ln = 0
  if '-*- mode: c;' in lines[ln]:
    ln += 1

  # Check filename comment if present.
```

```
  m = re.match(r'/\* ([^ ]*)( - .*)? \*/', lines[ln])
  if m:
     if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')
     ln += 1

  # Scan for license statements.
  in_comment = False
  code_seen = False
  nonlicense_seen = False
  for line in lines[ln:]:
     # Strip out whitespace and comments contained within a line.
     if not in_comment:
        line = re.sub(r'/\*.*?\*/',
'', line)
     line = line.strip()

     if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
     elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
     elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                   code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
     elif line.strip() != '':
        code_seen = True

     ln += 1

for fname in sys.argv[1:]:
  if fname.startswith('./'):
     fname = fname[2:]
  f = open(fname)
  lines = f.readlines()
  f.close()
  check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*

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1.221 libyaml 0.2.1

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c
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@item
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@enumerate a
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@item
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@subheading END OF TERMS AND CONDITIONS

@page
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@end enumerate

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@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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and a brief idea of what it does.}
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when it starts in an interactive mode:

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

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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1.223 groff 1.22.2

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src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program
and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c

src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

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tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex .

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the
same patterns as the file
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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
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`dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found
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. The file `tmac/hyphen.cs' contains the same patterns as the file
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1.224 flex 2.5.39

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1.225 libuser 0.60

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1.226 ethtool 3.15

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1.227 glib 2.40.0

1.228 sudo 1.8.10

1.228.1 Available under license :

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Allbery, Russ
Anderson, Jamie
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Bellis, Ray
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1.232 libdaemon 0.14

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

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

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

source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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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
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code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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1.235 gawk 4.1.1

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1.237 json-c 0.13.1

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1.238 pcre 8.38

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1.239 glibc 2.16

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libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative
of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the @dfn{Lesser} General Public License because it
does @emph{Less} to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

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

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

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

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

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@enumerate 0
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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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fee.

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

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

@item
You must
cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Otherwise,

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

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

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

@enumerate a
@item
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

@item
Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

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

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

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

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

@item
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.
@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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possible use to the public, we recommend making it free software that
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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.

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USA.
@end
 smallexample

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

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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

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Version 2, June 1991

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Whether that is true depends on what the Program does.

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

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

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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1.240 libjpeg 8d

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==

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DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt
Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision
 for supporting the hierarchical or lossless
processes defined in the standard.

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

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between
different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple
applications for inserting and extracting textual comments
 in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
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The Unix configuration script "configure" was produced with GNU Autoconf.

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Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

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

REFERENCES
==========

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

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in
that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PDF file containing a revised version of Wallace's article is
available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

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

The best currently available description of JPEG is the textbook "JPEG Still
Image Data Compression Standard" by William B. Pennebaker and Joan L.
Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1.
Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG
standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.
If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.
IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.
IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

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

uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in
directory "files". This particular version will be archived as
http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible
"zip" archive format as http://www.ijg.org/files/jpegsr9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites,
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ACKNOWLEDGMENTS
==========

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algorithm article, only to find out that I had come to the same result
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Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the
ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the
Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the
ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16)
meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini
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Thank to Nico Zschach and Dirk Stelling of the technical support team
at the Digital Images company in Halle for providing me with extra
equipment for configuration tests.

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communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of
this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert,
Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS
================

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG,
together with ITU-T SG16) currently
 promotes different formats containing
the name "JPEG" which is misleading because these formats are incompatible
with original DCT-based JPEG and are based on faulty technologies.
IJG therefore does not and will not support such momentary mistakes
(see REFERENCES).
There exist also distributions under the name "OpenJPEG" promoting such
kind of formats which is misleading because they don't support original
JPEG images.
We have no sympathy for the promotion of inferior formats. Indeed, one of
the original reasons for developing this free software was to help force
convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their
public reports which is not true because they don't respond to actual
requirements for the maintenance of the original JPEG specification.
Furthermore,
 the ISO committee pretends to "ensure interoperability" with
their standards which is not true because their "standards" support only
application-specific and proprietary use cases and contain mathematically
incorrect code.

There are currently different distributions in circulation containing the
name "libjpeg" which is misleading because they don't have the features and

are incompatible with formats supported by actual IJG libjpeg distributions.
One of those fakes is released by members of the ISO committee and just uses
the name of libjpeg for misdirection of people, similar to the abuse of the
name JPEG as described above, while having nothing in common with actual IJG
libjpeg distributions and containing mathematically incorrect code.
The other one claims to be a "derivative" or "fork" of the original libjpeg,
but violates the license conditions as described under LEGAL ISSUES above
and violates basic C programming properties.
We have no sympathy for the release of
misleading, incorrect and illegal
distributions derived from obsolete code bases.
Don't use an obsolete code base!

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A partial list of foreclosed institutions and corporations ("Hall of Shame")
is currently prepared and will be published later.

TO DO
=====

Version 9 is the second release of a new generation JPEG standard
to overcome the limitations of the original JPEG specification,
and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

1.241 net-tools 1.60

1.241.1 Available under license :

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1.242 glibc 2.17-196.el7

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

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

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

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

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

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

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

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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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the use of the Library in a tool for
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be a software 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.

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

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

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

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

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

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

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

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

c) If distribution of the work is made by offering access to copy

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice

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1.243 libtiff 3.9.4-11.el7

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1.244 sqlite 3.7.14.1

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1.246 bison 2.7.12

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

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+ many more (please mail me if you are missing in this list and would
like to be mentioned)

TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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Wenbiao Wang
/* 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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[This is the first released version of the library GPL. It is
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This option is useful when you wish to copy part of the code of the
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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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 for the nxt2004 frontend driver

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1.258 glibc 2.17-106.el7_2.8

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free

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

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

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

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

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1.263 glibc 2.20

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@item
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If such an object file uses only numerical parameters, data
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@subheading END OF TERMS AND CONDITIONS

@page
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
 int  fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN  0x0001
#define POLLOUT  0x0004
#define POLLERR  0x0008
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI  0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not
 standard */

int   poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)  ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

```
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.265 open-ldap 2.4.40-9.el7_2

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1.274 libidn 1.29

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`make' implicit rules from creating a file called install from it
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-- vile:txtmode fc=72
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1.278 attr 2.4.47

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1.279 ipmi-tool 1.8.18

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1.281 libnettle6 3.4

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1.283 coreutils 8.30

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1.286 ethtool 4.19

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1.289 mtd-utils 1.5.2

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@heading END OF TERMS AND CONDITIONS
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@page
@unnumberedsubsec Appendix: How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

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program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

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
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".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to
do, use the GNU Lesser General
Public License instead of this License. But first, please read
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@cindex LGPL, GNU Lesser General Public License
@cindex License, GNU LGPL
@center Version 2.1, February 1999

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

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

@unnumberedsubsec Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

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

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

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot

effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of
the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the @dfn{Lesser} General Public License because it
does @emph{Less} to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

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

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

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

that program using a modified version of the Library.

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

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@unnumberedsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE

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@end ifinfo

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool
 for
writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

@enumerate a
@item
The modified work must itself be a software library.

@item
You
 must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@enumerate a
@item
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

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

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

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

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted,
and provided that you do these two things:

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

@item
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.
@end enumerate

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

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Each version is given a distinguishing version number. If the Library
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the Free Software Foundation.

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If you wish to incorporate parts of the Library into other free
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write to the author to ask for
permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing

and reuse of software generally.

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@ifinfo
@center NO WARRANTY

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AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
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FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@unnumberedsubsec How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that

everyone can redistribute
and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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

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

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

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
The gettext-runtime package is partially under the LGPL and partially under
the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:
 - the libintl and libasprintf libraries and their header files,
 - the libintl.jar Java library,
 - the GNU.Gettext.dll C# library,
 - the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:
 - the _programs_ gettext, ngettext, envsubst,
 - the documentation.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

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

Preamble

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

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

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally,
software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore
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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
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1.292 mtd-utils 1.5.0

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1.296 less 530

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

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Files: debian/*
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@c \input texinfo.tex   @c -*-texinfo-*-
@c
@c %**start of header

@c All text is ignored before the setfilename.
@setfilename LGPL.info

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application does not supply such function or table, the facility still
operates, and performs whatever part of its purpose remains meaningful.

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

If such an object file uses only numerical parameters, data structure
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lines or less in length), then the use of the object file is
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(Executables containing this object code plus portions
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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
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As an exception to the Sections above, you may also combine or link a
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directing the user to the copy of this License. Also, you must do one
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1.304 iconv 2.28

1.304.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that
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Because
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permit developers of non-free programs to use free libraries, while

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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Version 3, 29 June 2007

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

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

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

TERMS AND CONDITIONS

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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1.306 sudo 1.8.19p2-10.el7

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.

Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian,
Emin
Meskes, Michael
Michael, David

Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
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Peterson, Toby
Petten, Diego Elio
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Plotnick, Alex
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Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
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SATO, Yuichi
Snchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.

Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
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Tarrall, Robert
Thomas, Matthew
Todd, Giles
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Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
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Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
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1.307 nginx 1.13.1

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1.309 libcroco 0.6.13

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concluded that weaker conditions might promote sharing better.

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

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

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1.310 python 3.7.4

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****
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==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 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 (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

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| 2.1.3
        | 2.1.2 | 2002 | PSF | yes |
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Mersenne Twister

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

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)

or init_by_array(init_key, key_length).

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

The :mod:`socket`
module uses the functions, :func:`getaddrinfo`, and
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Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

XML Remote Procedure Calls

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SipHash24

The file :file:`Python/pyhash.c` contains Marek
Majkowski' implementation of
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Original location:
  https://github.com/majek/csiphash/

Solution inspired by code from:
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  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson
(https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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cfuhash

The implementation of the hash table used by the :mod:`tracemalloc` is based
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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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1.311 libxml 2.9.1

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1.313 ntp 4.2.8p13

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

long-opts;
```

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

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

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

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
//     sub-name = version;
//     sub-text = 's/#VERSION#/<<version>>/g';
// };
```

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<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
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```

clock driver, Trimble PARSE support
Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>
William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
Dave Katz <dkatz@cisco.com>

RS/6000 AIX port
Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
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1.314 file 5.34

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```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao
```

```
## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c)
 $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup
```

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1.315 gnutls 3.6.4

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##########

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version 0.1
##
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1.320 less 466

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1.322 protobuf 3.6.1

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  * Optimize Java serialization of strings so that UTF-8 encoding happens only
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  * Added atomicops for AIX (POWER)

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1.323 dosfs-tools 2.11

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1.325 elfutils 0.175

1.325.1 Available under license :

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

<one line to give the program's name and a brief idea of what it does.>
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Gnomovision version 69, Copyright (C) year name of author
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it
under certain conditions; type `show c' for details.

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<signature of Ty Coon>, 1 April 1989
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Version 3, 29 June 2007

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1.329 cronie 1.5.2

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1.331 lzo 2.10

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The original version for gzip was written by Paul Eggert.
Modified for XZ Utils by Andrew Dudman and Lasse Collin.

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1.333 pam 1.1.6

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1.334 boost 1.68.0

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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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  </h3>

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[#mpl]
MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

1.335 junit 4.1.jar.pack

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1.337 libteam 1.17-7.el7_2

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1.339 libpcap 1.6.1

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1.340 hunspell 1.7.0

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* (the home page for ispell)
*
* An almost complete rewrite  of MySpell for use by
* the Mozilla project has been developed by David Einstein
```

* (Deinst@world.std.com). David and I are now
* working on parallel development tracks to help
* our respective projects (Mozilla and OpenOffice.org
* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.
*
* Special thanks also go to La'szlo' Ne'meth
* <nemethl@gyorsposta.hu> who is the author of the
* Hungarian dictionary and who developed and contributed
* the code to support compound words in MySpell
* and fixed numerous problems with the encoding
* case conversion tables.
*
*/

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1.341 udev 3.2.5

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1.342 curl 7.18.2

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

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

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1.344 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
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Zope Corporation was a sponsoring member of the PSF.

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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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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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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Version 1.0

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1.347 curl 7.56.1

1.347.1 Available under license :

License Mixing
==========

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem
 was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

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1.348 rsyslog 8.1908.0

1.348.1 Available under license :

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only if you received the object code with such an offer, in accord
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place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the
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copy the object code is a network server, the Corresponding Source
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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
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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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a)
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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also get your employer (if you work as a programmer) or your
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<signature of Ty Coon>, 1 April 1990
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Version 2.1, February 1999

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General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

to run.

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

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

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

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

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a) The modified work must itself be a software library.

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terms of this License.

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

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

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

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

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

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

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application

to use the modified definitions.)

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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other library
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Version 2, June 1991

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b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a

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

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1.366 pam 1.1.8 18.el7

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1.367 ncurses 5.9 13.20130511.el7

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1.368 nspr 4.13.1 1.0.el7_3

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1.373 rsyslog 3.16.1

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1.375 open-ldap 2.4.44 5.el7

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1.376 glib 2.50.3 3.el7

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

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1.377 netbsd-resolv 2.17 196.el7_4.2

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1.378 iproute 3.10.0 87.el7

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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino
 <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
 admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
 except the first one, were first implemented in the Buildtool project.
 They were later adapted to be part of Boost.Process and, during that
 process, the shell script was created.

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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-->

<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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

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

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

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>

</xsl:stylesheet>

<!--

 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.380 dhcp 4.2.5 42.el7.centos

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino
<jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==========

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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

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

 <xsl:template name="isc.copyright.format">

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

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>

</xsl:stylesheet>
```

<!--

 - Local variables:
 - mode: sgml
 - End:
-->
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1.382 bind 9.9.4 50.el7

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino
<jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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

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

 <xsl:template name="isc.copyright.format">

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

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>

</xsl:stylesheet>
```

<!--

 - Local variables:
 - mode: sgml
 - End:
-->
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1.383 curl 7.28.1

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1.384 busybox 1.29.2

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1.386 curl 7.43.0

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The End

```
---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:
 MailingList: mailto:module-build@perl.org
 license: http://dev.perl.org/licenses/
 repository: http://github.com/dagolden/module-build/
version: 3
```

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

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

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

That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the

```
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
 skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current
 year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";
```

```
 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

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1.407 dnsmasq 2.79

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1.410 libksba 1.3.0

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

a) Accompany the
work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at least

three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system
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library `Frob' (a library for tweaking knobs) written by James
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.412 libconfig 1.7.2

1.412.1 Available under license :

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ls-config
Source: https://github.com/lucas-net-pl/ls-config

Files: *
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Files: debian/*
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different copyright/license attached and list them here.
Please avoid to pick license terms that are more restrictive than the
packaged work, as it may make Debian's contributions unacceptable upstream.
@c \input texinfo.tex   @c -*-texinfo-*-
@c
@c %**start of header

@c All text is ignored before the setfilename.
@setfilename LGPL.info

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@sp 1
@center Preamble
@sp 1

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

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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shared library, the combination of the two is legally speaking a
combined work,
 a derivative of the original library. The ordinary
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combination fits its criteria of freedom. The Lesser General Public
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We call this license the ``Lesser'' General Public License because it does
Less to protect the user's freedom than the ordinary General Public
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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
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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.

@page

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prepared so as to be conveniently linked with application programs
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has been distributed under these terms. A ``work based on the Library''
means either the Library or any derivative work under copyright law:
that is to say, a work containing
the Library or a portion of it, either
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another language. (Hereinafter, translation is included without
limitation in the term ``modification''.)

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

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

@sp
1
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conspicuously and appropriately publish on each copy an appropriate
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you may at your option offer warranty protection in exchange for a fee.

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You may modify your copy or copies of the Library or any portion of it,
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modifications or work under the terms of Section 1 above, provided that
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@enumerate a

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The modified work must itself be a software library.

@sp 1
@item
You must cause the files modified to carry prominent notices stating
that you changed the
 files and the date of any change.

@sp 1
@item
You must cause the whole of the work to be licensed at no charge to all
third parties under the terms of this License.

@sp 1
@item
If a facility in the modified Library refers to a function or a table of
data to be supplied by an application program that uses the facility,
other than as an argument passed when the facility is invoked, then you
must make a good faith effort to ensure that, in the event an
application does not supply such function or table, the facility still
operates, and performs whatever part of its purpose remains meaningful.

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

@end enumerate

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution
medium does not bring the other work under the
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

@sp 1
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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:

@enumerate a

@sp 1
@item
Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever changes were used in the
work (which must be distributed under Sections 1 and 2 above); and, if
the work is an executable linked with the Library, with the complete
machine-readable ``work that uses the Library'', as object code and/or
source code, so that the user can modify the Library and then relink to
produce a modified executable containing the modified Library. (It is
understood that the user who changes the contents of definitions files
in the Library will not necessarily be able to recompile the application
to use the modified definitions.)

@sp 1
@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.

@sp 1
@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
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.

@sp 1

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

@end enumerate

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

It may happen that this requirement contradicts the license restrictions
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and the Library together in an executable that you distribute.

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and of the other library facilities is otherwise permitted, and provided
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Accompany the combined library with a copy of the same work based on the
Library, uncombined with any other library facilities. This must be
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1.413 perl 5.28.1

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---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:
 MailingList: mailto:module-build@perl.org
 license: http://dev.perl.org/licenses/
 repository: http://github.com/dagolden/module-build/
version: 3

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

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 <signature of Ty Coon>, 1 April 1989
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That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ($Config{usecrosscompile}) {
 skip_all("Not all files are available during cross-compilation");
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

Check that both copyright dates are up-to-date, but only if requested, so
that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;

```
 is $v_year, $current_year, 'perl -v copyright includes current
 year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
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<one line to give the program's name and a brief idea of what it does.>
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The End

1.414 icu 53

1.414.1 Available under license :

```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c)
 $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
```

```
%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

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

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

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

## End BSD-specific setup
```

1.415 log-rotate 3.14.0

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1.416 libgpg-error 1.32

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1.417 libmagic 5.32

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1.418 nmap 7.40

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http://www.lua.org/
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1.422 gettext libc version

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@subheading END OF TERMS AND CONDITIONS

@page
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@end
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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
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@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
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 and a brief idea of what it does.}
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice
@end example

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1.427 free-type 2.4.11

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src/gzip/inflate.c
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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.430 shim 10.6

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1.431 tcpdump 4.9.3

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1.432 openssl 0.9.8e 29.el7.centos.3

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

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
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> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
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=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
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> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
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> > > additional code, so whatever licensing y'all come up with is fine
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> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
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> I'd also suggest the LGPL, for the reason you noted above. Alternately,
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> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.

>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk

>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.436 beecrypt 4.2.1

1.436.1 Available under license :

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I would like to thank the following people (in alphabetical order):

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- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired
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- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for
Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

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- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
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reported bugs, provided feedback, or works on including BeeCrypt in any
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If I've missed anyone, it's due to oversight. Drop me a line and I'll
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* Frodo Looijaard
Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
Original author of sensord.
* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in
libsensors and sensors.
* Mark M. Hoffman
Many improvements to the libsensors configuration file scanner.
* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively 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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might be different; for a GUI interface, you would use an "about box".

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

Finally, every program is threatened constantly by software patents.

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

``The Program'' refers to any copyrightable work licensed
 under this
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``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of
an exact copy. The resulting work is called a ``modified version'' of
the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based
on the Program.

To ``propagate'' a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To ``convey'' a work means any kind of propagation that enables other
parties to make or receive copies. Mere
 interaction with a user
through a computer network, with no transfer of a copy, is not
conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to
the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

@item Source Code.

The ``source code'' for a work means the preferred form of the work for
making modifications to it. ``Object code'' means any non-source form
of a work.

A ``Standard Interface'' means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming
 language, one that
is widely used among developers working in that language.

The ``System Libraries'' of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
``Major Component'', in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However,
 it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users can
regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same
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Conveying under any other circumstances is
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You may convey verbatim copies of the Program's source code as you receive

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and you may offer support or warranty protection for a fee.

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You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these
conditions:

@enumerate a
@item
The work must carry prominent notices stating that you modified it,
and giving a relevant date.

@item
The work must carry prominent notices stating that it is released
under this License and any conditions added
under section 7. This
requirement modifies the requirement in section 4 to ``keep intact all
notices''.

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You must license the entire work, as a whole, under this License to
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to the whole of the work, and all its parts, regardless of how they
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@item
If the work has interactive user interfaces, each must display
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interfaces that do not display Appropriate Legal Notices, your work
need not make them do so.
@end enumerate

A compilation of a covered work with other separate and independent
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and which are not combined with it such as to form a larger program,

in
 or on a volume of a storage or distribution medium, is called an
``aggregate'' if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

@item Conveying Non-Source Forms.

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

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

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

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

@item
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through
 the same place at no
further charge. You need not require recipients to copy the

Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

@end enumerate

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

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

``Installation Information'' for a User Product means any methods, procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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

User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
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if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

The requirement to provide Installation Information
 does not include a
requirement to continue to provide support service, warranty, or
updates for a work that has been modified or installed by the
recipient, or for the User Product in which it has been modified or
installed. Access to a network may be denied when the modification
itself materially and adversely affects the operation of the network
or violates the rules and protocols for communication across the
network.

Corresponding Source conveyed, and Installation Information provided,
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documented (and with an implementation available to the public in
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reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it

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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.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
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it under the terms of the GNU General Public License as published by
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 for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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1.439 dhcp 4.4.1

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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh,
 admin/check-style-common.awk,
 admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
 except the first one, were first implemented in the Buildtool project.
 They were later adapted to be part of Boost.Process and, during that
 process, the shell script was created.

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<!-- $Id$ -->

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

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

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

 <xsl:variable name="isc.copyright.text">
   <xsl:text>
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```

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

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

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

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1.440 bridgeutils 1.6

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1.442 tcp-wrappers 7.6 77.el7

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1.444 fcgi 2.4.0-25.e17

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1.447 libusb 1.0.8

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1.448 sblim-sfcb 1.3.3-040609

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1.449 zlib 0.95

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1.450 avahi 0.7

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1.451 rpm 4.14.2

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libfreedreno_layout = static_library(
 'freedreno_layout',
 [
   'fd6_layout.c',
   'freedreno_layout.c',
 ],
 include_directories : [inc_freedreno, inc_common],
 c_args : [c_vis_args, no_override_init_args],
 cpp_args : [cpp_vis_args],
 dependencies : idep_nir_headers,
 build_by_default : false,
)
```

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1.454 lsscsi 0.27

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

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December 15, 2011
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That's all there is to it!
This package was debianized by Ron Lee <ron@debian.org> on
Sun, 13 Feb 2000 18:40:00 +1030.

More information about wxWidgets, as well as the source these debs
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Note for Debian users:
==========

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1.457 libxi 1.7

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1.458 gtk 2.24.10

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1.459 libxext 1.3.1

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1.460 libuv 1.30.1

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1.461 libxaw 1.0.11

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1.465 tiny-xml 0.9.5-5.3.el6

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1.466 selinux 2.107-1.el7_6

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src/bdf/bdf.c
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src/pcf/module.mk
src/pcf/pcf.c
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src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
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#
src/gzip/adler32.c
src/gzip/infblock.c
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src/gzip/infcodes.c
```

src/gzip/infcodes.h
src/gzip/inffixed.h
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src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
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* ==
*
*/

Found in path(s):
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips_ecdsa_selftest.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdh/fips_ecdh_selftest.c
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Found in path(s):
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/modexp512-x86_64.pl
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* ==
*/

Found in path(s):
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/gcm128.c

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```
/*.c>, <crypto/*/*.c>, <ssl/*.c>, <apps/*.c>)
            When this option is NOT specified, the filelist is taken from
            the commandline instead. Here, wildcards may be embedded. (Be
            sure to escape those to prevent the shell from expanding them
            for you when you wish mkerr.pl to do so instead.)
            Default: take file list to scan from the command line.

 -reindex      Discard the numeric values previously assigned to the error
            and function codes as extracted from the scanned header files;
            instead renumber all of them starting from 100. (Note that
            the numbers assigned through 'R' records in the config file
            remain intact.)
            Default: keep previously assigned numbers. (You are warned
                  when collisions are detected.)

 -nostatic     Generates a different source
 code, where these additional
            functions are generated for each library specified in the
            config file:
              void ERR_load_<LIB>_strings(void);
              void ERR_unload_<LIB>_strings(void);
              void ERR_<LIB>_error(int f, int r, char *fn, int ln);
              #define <LIB>err(f,r) ERR_<LIB>_error(f,r,__FILE__,__LINE__)
            while the code facilitates the use of these in an environment
            where the error support routines are dynamically loaded at
            runtime.
            Default: 'static' code generation.

 -staticloader Prefix generated functions with the 'static' scope modifier.
            Default: don't write any scope modifier prefix.

 -write        Actually (over)write the generated code to the header and C
            source files as assigned to each library through the config
            file.
            Default: don't write.

 -help / -h / -?
 / --help           Show this help text.

 ...          Additional arguments are added to the file list to scan,
            assuming '-recurse' was NOT specified on the command line.

 EOF
  exit 1;
 } else {
  last;
```

```
 }
}

if($recurse) {
 @source = ( <crypto/*.c>, <crypto/*/*.c>, <ssl/*.c>,
   <fips/*.c>, <fips/*/*.c>);
} else {
 @source = @ARGV;
}

# Read in the config file

open(IN, "<$config") || die "Can't open config file $config";

# Parse config file

while(<IN>)
{
 if(/^L\s+(\S+)\s+(\S+)\s+(\S+)/) {
  $hinc{$1} = $2;
  $libinc{$2} = $1;
  $cskip{$3} = $1;
  if($3 ne "NONE") {
   $csrc{$1} = $3;
   $fmax{$1} = 100;
   $rmax{$1} = 100;
   $fassigned{$1} = ":";
   $rassigned{$1} = ":";
   $fnew{$1} = 0;
   $rnew{$1} = 0;
  }
 } elsif (/^F\s+(\S+)/) {
 # Add extra function with $1
 } elsif (/^R\s+(\S+)\s+(\S+)/) {
  $rextra{$1} = $2;
  $rcodes{$1} = $2;
 }
}

close IN;

# Scan each header file in turn and make a list of error codes
# and function names

while (($hdr, $lib) =
 each %libinc)
{
 next if($hdr eq "NONE");
```

```
print STDERR "Scanning header file $hdr\n" if $debug;
my $line = "", $def= "", $linenr = 0, $gotfile = 0;
if (open(IN, "<$hdr")) {
    $gotfile = 1;
    while(<IN>) {
 $linenr++;
 print STDERR "line: $linenr\r" if $debug;

 last if(/BEGIN\s+ERROR\s+CODES/);
 if ($line ne '') {
    $_ = $line . $_;
    $line = '';
 }

 if (/\\$/) {
    $line = $_;
    next;
 }

 if(/\/\*/) {
    if (not /\*\//) {  # multiline comment...
  $line = $_;  # ... just accumulate
  next;
    } else {
  s/\/\*.*?\*\///gs; # wipe it
    }
 }

 if ($cpp) {
    $cpp++ if /^#\s*if/;
    $cpp-- if /^#\s*endif/;
    next;
 }
 $cpp = 1 if /^#.*ifdef.*cplusplus/;  # skip "C" declaration

 next if (/^\#/);                    # skip preprocessor directives

 s/{[^{}]*}//gs;                      # ignore {} blocks

 if (/\{|\/\*/) { # Add a } so editor works...
    $line = $_;
 } else {
    $def .= $_;
 }
   }
}

print STDERR
```

```
"                                \r" if $debug;
    $defnr = 0;
# Delete any DECLARE_ macros
$def =~ s/DECLARE_\w+\([\w,\s]+\)//gs;
foreach (split /;/, $def) {
   $defnr++;
   print STDERR "def: $defnr\r" if $debug;

   # The goal is to collect function names from function declarations.

   s/^[\n\s]*//g;
   s/[\n\s]*$//g;

   # Skip over recognized non-function declarations
   next if(/typedef\W/ or /DECLARE_STACK_OF/ or /TYPEDEF_.*_OF/);

   # Remove STACK_OF(foo)
   s/STACK_OF\(\w+\)/void/;

   # Reduce argument lists to empty ()
   # fold round brackets recursively: (t(*v)(t),t) -> (t{}{},t) -> {}
   while(/\(.*\)/s) {
 s/\([^\(\)]+\)/\{\}/gs;
 s/\(\s*\*\s*(\w+)\s*\{\}\s*\)/$1/gs; #(*f{}) -> f
   }
   # pretend as we didn't use curly braces: {} -> ()
   s/\{\}/\(\)/gs;

   if (/(\w+)\s*\(\).*/s) { # first token prior [first] () is
 my $name = $1;  # a function name!
 $name =~ tr/[a-z]/[A-Z]/;
 $ftrans{$name} = $1;
   } elsif (/[\(\)]/
and not (/=/)) {
 print STDERR "Header $hdr: cannot parse: $_;\n";
   }
}

print STDERR "                                \r" if $debug;

next if $reindex;

# Scan function and reason codes and store them: keep a note of the
# maximum code used.

if ($gotfile) {
  while(<IN>) {
 if(/^\#define\s+(\S+)\s+(\S+)/) {
```

```
 $name = $1;
 $code = $2;
 next if $name =~ /^${lib}err/;
 unless($name =~ /^${lib}_([RF])_(\w+)$/) {
  print STDERR "Invalid error code $name\n";
  next;
 }
 if($1 eq "R") {
  $rcodes{$name} = $code;
  if ($rassigned{$lib} =~ /:$code:/) {
   print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
   ++$errcount;
  }
  $rassigned{$lib} .= "$code:";
  if(!(exists $rextra{$name}) &&
    ($code > $rmax{$lib}) ) {
   $rmax{$lib} = $code;
  }
 } else {
  if ($fassigned{$lib} =~ /:$code:/) {
   print STDERR "!! ERROR: $lib function code $code assigned twice (collision at $name)\n";
   ++$errcount;
  }
  $fassigned{$lib}
.= "$code:";
  if($code > $fmax{$lib}) {
   $fmax{$lib} = $code;
  }
  $fcodes{$name} = $code;
 }
}
 }
}

if ($debug) {
 if (defined($fmax{$lib})) {
  print STDERR "Max function code fmax" . "{" . "$lib" . "} = $fmax{$lib}\n";
  $fassigned{$lib} =~ m/^:(.*):$/;
  @fassigned = sort {$a <=> $b} split(":", $1);
  print STDERR "  @fassigned\n";
 }
 if (defined($rmax{$lib})) {
  print STDERR "Max reason code rmax" . "{" . "$lib" . "} = $rmax{$lib}\n";
  $rassigned{$lib} =~ m/^:(.*):$/;
  @rassigned = sort {$a <=> $b} split(":", $1);
  print STDERR "  @rassigned\n";
 }
}
```

```
 if ($lib eq "SSL") {
  if ($rmax{$lib} >= 1000) {
   print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n";
   print STDERR "!!        Any new alerts must be added to $config.\n";
   ++$errcount;
   print STDERR "\n";
  }
 }
 close IN;
}

# Scan each C source file and look for function and reason codes
# This is done by looking for strings that
 "look like" function or
# reason codes: basically anything consisting of all upper case and
# numerics which has _F_ or _R_ in it and which has the name of an
# error library at the start. This seems to work fine except for the
# oddly named structure BIO_F_CTX which needs to be ignored.
# If a code doesn't exist in list compiled from headers then mark it
# with the value "X" as a place holder to give it a value later.
# Store all function and reason codes found in %ufcodes and %urcodes
# so all those unreferenced can be printed out.


foreach $file (@source) {
 # Don't parse the error source file.
 next if exists $cskip{$file};
 print STDERR "File loaded: ".$file."\r" if $debug;
 open(IN, "<$file") || die "Can't open source file $file\n";
 while(<IN>) {
  # skip obsoleted source files entirely!
  last if(/^#error\s+obsolete/);

  if(/(([A-Z0-9]+)_F_([A-Z0-9_]+))/) {
   next unless exists $csrc{$2};
   next if($1 eq "BIO_F_BUFFER_CTX");
   $ufcodes{$1} = 1;
   if(!exists $fcodes{$1})
  {
    $fcodes{$1} = "X";
    $fnew{$2}++;
   }
   $notrans{$1} = 1 unless exists $ftrans{$3};
   print STDERR "Function: $1\t= $fcodes{$1} (lib: $2, name: $3)\n" if $debug;
  }
  if(/(([A-Z0-9]+)_R_[A-Z0-9_]+)/) {
   next unless exists $csrc{$2};
```

```
  $urcodes{$1} = 1;
  if(!exists $rcodes{$1}) {
   $rcodes{$1} = "X";
   $rnew{$2}++;
  }
  print STDERR "Reason: $1\t= $rcodes{$1} (lib: $2)\n" if $debug;
 }
}
close IN;
}
print STDERR "                              \n" if $debug;

# Now process each library in turn.

foreach $lib (keys %csrc)
{
 my $hfile = $hinc{$lib};
 my $cfile = $csrc{$lib};
 if(!$fnew{$lib} && !$rnew{$lib}) {
  print STDERR "$lib:\t\tNo new error codes\n";
  next unless $rebuild;
 } else {
  print STDERR "$lib:\t\t$fnew{$lib} New Functions,";
  print STDERR " $rnew{$lib} New Reasons.\n";
  next unless $dowrite;
 }

 # If we get here then we have some new error codes so we
 # need to rebuild the header file and C file.

 # Make a sorted list of error and
 reason codes for later use.

 my @function = sort grep(/^${lib}_/,keys %fcodes);
 my @reasons = sort grep(/^${lib}_/,keys %rcodes);

 # Rewrite the header file

 if (open(IN, "<$hfile")) {
    # Copy across the old file
    while(<IN>) {
  push @out, $_;
  last if (/BEGIN ERROR CODES/);
    }
    close IN;
 } else {
    push @out,
"/* ================================================================\n",
```

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" * ====================================================================\n",
```

```
"
 *\n",
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" * (eay\@cryptsoft.com).  This product includes software written by Tim\n",
" * Hudson (tjh\@cryptsoft.com).\n",
" *\n",
" */\n",
"\n",
"#ifndef HEADER_${lib}_ERR_H\n",
"#define HEADER_${lib}_ERR_H\n",
"\n",
"#ifdef  __cplusplus\n",
"extern \"C\" {\n",
"#endif\n",
"\n",
"/* BEGIN ERROR CODES */\n";
 }
 open (OUT, ">$hfile") || die "Can't Open File $hfile for writing\n";

 print OUT @out;
 undef @out;
 print OUT <<"EOF";
/* The following lines are auto generated by the script mkerr.pl. Any changes
* made after this point may be overwritten when the script is next run.
*/
EOF
 if($static) {
  print OUT <<"EOF";
${staticloader}void ERR_load_${lib}_strings(void);

EOF
 } else {
  print OUT <<"EOF";
${staticloader}void ERR_load_${lib}_strings(void);
${staticloader}void ERR_unload_${lib}_strings(void);
${staticloader}void ERR_${lib}_error(int function, int reason, char
 *file, int line);
#define ${lib}err(f,r) ERR_${lib}_error((f),(r),__FILE__,__LINE__)

EOF
 }
 print OUT <<"EOF";
/* Error codes for the $lib functions. */

/* Function codes. */
EOF

 foreach $i (@function) {
```

```
 $z=6-int(length($i)/8);
 if($fcodes{$i} eq "X") {
  $fassigned{$lib} =~ m/^:([^:]*):/;
  $findcode = $1;
  if (!defined($findcode)) {
   $findcode = $fmax{$lib};
  }
  while ($fassigned{$lib} =~ m/:$findcode:/) {
   $findcode++;
  }
  $fcodes{$i} = $findcode;
  $fassigned{$lib} .= "$findcode:";
  print STDERR "New Function code $i\n" if $debug;
 }
 printf OUT "#define $i%s $fcodes{$i}\n","\t" x $z;
}

print OUT "\n/* Reason codes. */\n";

foreach $i (@reasons) {
 $z=6-int(length($i)/8);
 if($rcodes{$i} eq "X") {
  $rassigned{$lib} =~ m/^:([^:]*):/;
  $findcode = $1;
  if (!defined($findcode)) {
   $findcode = $rmax{$lib};
  }
  while ($rassigned{$lib} =~ m/:$findcode:/) {
   $findcode++;
  }
  $rcodes{$i} = $findcode;
  $rassigned{$lib} .= "$findcode:";
  print
 STDERR "New Reason code   $i\n" if $debug;
 }
 printf OUT "#define $i%s $rcodes{$i}\n","\t" x $z;
}
print OUT <<"EOF";

#ifdef  __cplusplus
}
#endif
#endif
EOF
 close OUT;

 # Rewrite the C source file containing the error details.
```

```
# First, read any existing reason string definitions:
my %err_reason_strings;
if (open(IN,"<$cfile")) {
 while (<IN>) {
  if (/\b(${lib}_R_\w*)\b.*\"(.*)\"/) {
   $err_reason_strings{$1} = $2;
  }
  if (/\b${lib}_F_(\w*)\b.*\"(.*)\"/) {
   if (!exists $ftrans{$1} && ($1 ne $2)) {
    print STDERR "WARNING: Mismatched function string $2\n";
    $ftrans{$1} = $2;
   }
  }
 }
 close(IN);
}


my $hincf;
if($static) {
 $hfile =~ /([^\/]+)$/;
 $hincf = "<${hprefix}$1>";
} else {
 $hincf = "\"$hfile\"";
}

# If static we know the error code at compile time so use it
# in error definitions.

if ($static)
 {
 $pack_errcode = "ERR_LIB_${lib}";
 $load_errcode = "0";
 }
else
 {
 $pack_errcode = "0";
 $load_errcode = "ERR_LIB_${lib}";
 }


 open
 (OUT,">$cfile") || die "Can't open $cfile for writing";

 print OUT <<"EOF";
/* $cfile */
/* ====================================================================
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```

```
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* ====================================================================
*
```

```
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* (eay\@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh\@cryptsoft.com).
*
*/

/* NOTE: this file was auto generated by the mkerr.pl script: any changes
* made to it will be overwritten when the script next updates this file,
* only reason strings will be preserved.
*/

#include <stdio.h>
#include <openssl/err.h>
#include
 $hincf

/* BEGIN ERROR CODES */
#ifndef OPENSSL_NO_ERR

#define ERR_FUNC(func) ERR_PACK($pack_errcode,func,0)
#define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)

static ERR_STRING_DATA ${lib}_str_functs[]=
 {
EOF
 # Add each function code: if a function name is found then use it.
 foreach $i (@function) {
  my $fn;
  $i =~ /^${lib}_F_(\S+)$/;
  $fn = $1;
  if(exists $ftrans{$fn}) {
   $fn = $ftrans{$fn};
  }
#  print OUT "{ERR_PACK($pack_errcode,$i,0),\t\"$fn\"},\n";
  print OUT "{ERR_FUNC($i),\t\"$fn\"},\n";
 }
 print OUT <<"EOF";
{0,NULL}
 };

static ERR_STRING_DATA ${lib}_str_reasons[]=
 {
EOF
 # Add each reason code.
 foreach $i (@reasons) {
  my $rn;
  my $rstr = "ERR_REASON($i)";
  my $nspc = 0;
```

```
  if (exists $err_reason_strings{$i}) {
   $rn = $err_reason_strings{$i};
  } else {
   $i =~ /^${lib}_R_(\S+)$/;
   $rn = $1;
   $rn =~ tr/_[A-Z]/ [a-z]/;
  }
  $nspc = 40 - length($rstr) unless length($rstr) > 40;
  $nspc = " " x $nspc;
  print OUT "{${rstr}${nspc},\"$rn\"},\n";
 }
if($static)
 {
 print OUT <<"EOF";
{0,NULL}
 };

#endif

${staticloader}void ERR_load_${lib}_strings(void)
 {
#ifndef OPENSSL_NO_ERR

 if (ERR_func_error_string(${lib}_str_functs[0].error) == NULL)
  {
  ERR_load_strings($load_errcode,${lib}_str_functs);
  ERR_load_strings($load_errcode,${lib}_str_reasons);
  }
#endif
 }
EOF
} else {
 print OUT <<"EOF";
{0,NULL}
 };

#endif

#ifdef ${lib}_LIB_NAME
static ERR_STRING_DATA ${lib}_lib_name[]=
      {
{0 ,${lib}_LIB_NAME},
{0,NULL}
 };
#endif


static int ${lib}_lib_error_code=0;
```

```
static int ${lib}_error_init=1;

${staticloader}void ERR_load_${lib}_strings(void)
 {
 if (${lib}_lib_error_code == 0)
  ${lib}_lib_error_code=ERR_get_next_error_library();

 if (${lib}_error_init)
  {
  ${lib}_error_init=0;
#ifndef OPENSSL_NO_ERR
  ERR_load_strings(${lib}_lib_error_code,${lib}_str_functs);
  ERR_load_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif

#ifdef ${lib}_LIB_NAME
  ${lib}_lib_name->error = ERR_PACK(${lib}_lib_error_code,0,0);
  ERR_load_strings(0,${lib}_lib_name);
#endif
  }
 }

${staticloader}void
 ERR_unload_${lib}_strings(void)
 {
 if (${lib}_error_init == 0)
  {
#ifndef OPENSSL_NO_ERR
  ERR_unload_strings(${lib}_lib_error_code,${lib}_str_functs);
  ERR_unload_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif

#ifdef ${lib}_LIB_NAME
  ERR_unload_strings(0,${lib}_lib_name);
#endif
  ${lib}_error_init=1;
  }
 }

${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
 {
 if (${lib}_lib_error_code == 0)
  ${lib}_lib_error_code=ERR_get_next_error_library();
 ERR_PUT_error(${lib}_lib_error_code,function,reason,file,line);
 }
EOF

}
```

```
 close OUT;
 undef %err_reason_strings;
}

if($debug && defined(%notrans)) {
 print STDERR "The following function codes were not translated:\n";
 foreach(sort keys %notrans)
 {
  print STDERR "$_\n";
 }
}

# Make a list of unreferenced function and reason codes

foreach (keys %fcodes) {
 push (@funref, $_) unless exists $ufcodes{$_};
}

foreach
 (keys %rcodes) {
 push (@runref, $_) unless exists $urcodes{$_};
}

if($debug && defined(@funref) ) {
 print STDERR "The following function codes were not referenced:\n";
 foreach(sort @funref)
 {
  print STDERR "$_\n";
 }
}

if($debug && defined(@runref) ) {
 print STDERR "The following reason codes were not referenced:\n";
 foreach(sort @runref)
 {
  print STDERR "$_\n";
 }
}

if($errcount) {
 print STDERR "There were errors, failing...\n\n";
 exit $errcount;
}

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```

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```
#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# SHA512 for C64x.
#
# November 2016
#
# Performance is ~19 cycles per processed byte. Compared to block
# transform function from sha512.c compiled with cl6x with -mv6400+
# -o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
# Loop unroll won't make it, this implementation, any faster, because
# it's effectively dominated by SHRU||SHL pairs and you can't schedule
# more of them.
#
# !!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve
 it and for own well-being
# zero it upon entry.

while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6");            # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi,         $T2hi)=         ("A6","A7");
```

```
($T1lo,$T1carry,$T2lo,$T2carry)=("B6","B7","B8","B9");
($Khi,$Klo)=("A9","A8");
($MAJhi,$MAJlo)=($T2hi,$T2lo);
($t1hi,$t1lo)=($Khi,"B2");
$CTXB=$t1lo;

($Xihi,$Xilo)=("A5","B5");   # circular/ring buffer

$code.=<<___;
 .text

 .if .ASSEMBLER_VERSION<7000000
 .asg 0,__TI_EABI__
 .endif
 .if __TI_EABI__
 .nocmp
 .asg sha512_block_data_order,_sha512_block_data_order
 .endif

 .asg B3,RA
 .asg A15,FP
 .asg B15,SP

 .if .BIG_ENDIAN
 .asg $Khi,KHI
 .asg $Klo,KLO
 .else
 .asg $Khi,KLO
 .asg $Klo,KHI
 .endif

 .global _sha512_block_data_order
_sha512_block_data_order:
__sha512_block:
 .asmfunc
 stack_usage(40+128)
 MV $NUM,A0    ; reassign $NUM
|| MVK -128,B0
 [!A0] BNOP RA    ; if ($NUM==0) return;
|| [A0] STW FP,*SP--(40)   ; save frame pointer
|| [A0] MV SP,FP
  [A0] STDW B13:B12,*SP[4]
|| [A0] MVK 0x00404,B1
  [A0] STDW B11:B10,*SP[3]
|| [A0] STDW A13:A12,*FP[-3]
|| [A0] MVKH 0x60000,B1
  [A0] STDW A11:A10,*SP[1]
|| [A0] MVC B1,AMR    ; setup circular addressing
```

```
|| [A0] ADD B0,SP,SP   ; alloca(128)
 .if __TI_EABI__
  [A0] AND B0,SP,SP   ; align stack at 128 bytes
|| [A0] ADDKPC __sha512_block,B1
|| [A0] MVKL \$PCR_OFFSET(K512,__sha512_block),$K512
  [A0] MVKH \$PCR_OFFSET(K512,__sha512_block),$K512
|| [A0] SUBAW SP,2,SP    ; reserve two words above buffer
 .else
  [A0] AND B0,SP,SP   ; align stack at 128 bytes
|| [A0] ADDKPC __sha512_block,B1
|| [A0] MVKL (K512-__sha512_block),$K512
   [A0] MVKH (K512-__sha512_block),$K512
|| [A0] SUBAW SP,2,SP    ; reserve two words above buffer
 .endif
 ADDAW SP,3,$Xilo
 ADD SP,4*2,$Xihi   ; ADDAW SP,2,$Xihi

|| MV $CTXA,$CTXB
 LDW *${CTXA}[0^.LITTLE_ENDIAN],$Ahi ; load ctx
|| LDW *${CTXB}[1^.LITTLE_ENDIAN],$Alo
|| ADD B1,$K512,$K512
 LDW *${CTXA}[2^.LITTLE_ENDIAN],$Bhi
|| LDW *${CTXB}[3^.LITTLE_ENDIAN],$Blo
 LDW *${CTXA}[4^.LITTLE_ENDIAN],$Chi
|| LDW *${CTXB}[5^.LITTLE_ENDIAN],$Clo
 LDW *${CTXA}[6^.LITTLE_ENDIAN],$Dhi
|| LDW *${CTXB}[7^.LITTLE_ENDIAN],$Dlo
 LDW *${CTXA}[8^.LITTLE_ENDIAN],$Ehi
|| LDW *${CTXB}[9^.LITTLE_ENDIAN],$Elo
 LDW *${CTXA}[10^.LITTLE_ENDIAN],$Fhi
|| LDW *${CTXB}[11^.LITTLE_ENDIAN],$Flo
 LDW *${CTXA}[12^.LITTLE_ENDIAN],$Ghi
|| LDW *${CTXB}[13^.LITTLE_ENDIAN],$Glo
 LDW *${CTXA}[14^.LITTLE_ENDIAN],$Hhi
|| LDW *${CTXB}[15^.LITTLE_ENDIAN],$Hlo

 LDNDW *$INP++,B11:B10   ; pre-fetch input
 LDDW *$K512++,$Khi:$Klo  ; pre-fetch K512[0]
outerloop?:
 MVK 15,B0    ; loop counters
|| MVK 64,B1
|| SUB A0,1,A0
 MV $Ahi,$Actxhi
|| MV $Alo,$Actxlo
|| MV $Bhi,$Bctxhi
|| MV $Blo,$Bctxlo
|| MV $Chi,$Cctxhi
|| MV $Clo,$Cctxlo
```

```
|| MVD $Dhi,$Dctxhi
|| MVD $Dlo,$Dctxlo
 MV $Ehi,$Ectxhi
|| MV $Elo,$Ectxlo
|| MV $Fhi,$Fctxhi
|| MV $Flo,$Fctxlo
|| MV $Ghi,$Gctxhi
|| MV $Glo,$Gctxlo
|| MVD $Hhi,$Hctxhi
|| MVD $Hlo,$Hctxlo
loop0_15?:
 .if .BIG_ENDIAN
 MV B11,$T1hi
|| MV B10,$T1lo
 .else
 SWAP4 B10,$T1hi
|| SWAP4 B11,$T1lo
 SWAP2 $T1hi,$T1hi
|| SWAP2 $T1lo,$T1lo
 .endif
 STW $T1hi,*$Xihi++[2]   ;
 original loop16_79?
|| STW $T1lo,*$Xilo++[2]   ; X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo  ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
loop16_79?:
 XOR $Fhi,$Ghi,$CHhi
|| XOR $Flo,$Glo,$CHlo
|| ADD KHI,$T1hi,$T1hi
|| ADDU KLO,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += K512[i]
|| SHRU $Elo,14,$t0lo
|| SHL $Elo,32-14,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Ehi,$CHhi,$CHhi
|| AND $Elo,$CHlo,$CHlo
|| ROTL $Ghi,0,$Hhi
|| ROTL $Glo,0,$Hlo    ; h = g
|| SHRU $Ehi,18,$t0hi
|| SHL $Ehi,32-18,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| XOR $Ghi,$CHhi,$CHhi
|| XOR $Glo,$CHlo,$CHlo   ;
 Ch(e,f,g) = ((f^g)&e)^g
|| ROTL $Fhi,0,$Ghi
```

```
|| ROTL $Flo,0,$Glo    ; g = f
|| SHRU $Elo,18,$t0lo
|| SHL $Elo,32-18,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| OR $Ahi,$Bhi,$MAJhi
|| OR $Alo,$Blo,$MAJlo
|| ROTL $Ehi,0,$Fhi
|| ROTL $Elo,0,$Flo    ; f = e
|| SHRU $Ehi,41-32,$t0lo
|| SHL $Ehi,64-41,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Chi,$MAJhi,$MAJhi
|| AND $Clo,$MAJlo,$MAJlo
|| ROTL $Dhi,0,$Ehi
|| ROTL $Dlo,0,$Elo    ; e = d
|| SHRU $Elo,41-32,$t0hi
|| SHL $Elo,64-41,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo   ; Sigma1(e)
|| AND $Ahi,$Bhi,$t1hi
|| AND $Alo,$Blo,$t1lo
|| ROTL $Chi,0,$Dhi
|| ROTL $Clo,0,$Dlo    ; d = c
|| SHRU $Ahi,28,$S0hi
|| SHL $Ahi,32-28,$S0lo
 OR $t1hi,$MAJhi,$MAJhi
|| OR $t1lo,$MAJlo,$MAJlo   ; Maj(a,b,c) = ((a|b)&c)|(a&b)
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ;
 T1 += Ch(e,f,g)
|| ROTL $Bhi,0,$Chi
|| ROTL $Blo,0,$Clo    ; c = b
|| SHRU $Alo,28,$t0lo
|| SHL $Alo,32-28,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Sigma1(e)
|| ROTL $Ahi,0,$Bhi
|| ROTL $Alo,0,$Blo    ; b = a
|| SHRU $Ahi,34-32,$t0lo
|| SHL $Ahi,64-34,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $MAJhi,$T1hi,$T2hi
|| ADDU $MAJlo,$T1carry:$T1lo,$T2carry:$T2lo ; T2 = T1+Maj(a,b,c)
```

```
|| SHRU $Alo,34-32,$t0hi
|| SHL $Alo,64-34,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $Ehi,$T1hi,$T1hi
|| ADDU $Elo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += e
|| SHRU $Ahi,39-32,$t0lo
|| SHL $Ahi,64-39,$t0hi
  [B0] BNOP loop0_15?
|| [B0] LDNDW *$INP++,B11:B10    ; pre-fetch input
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $Alo,39-32,$t0hi
|| SHL $Alo,64-39,$t0lo
||[!B0] LDW *${Xihi}[28],$T1hi
||[!B0] LDW *${Xilo}[28],$T1lo   ; X[i+14]
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo   ;
 Sigma0(a)
|| ADD $T1carry,$T1hi,$Ehi
|| ROTL $T1lo,0,$Elo    ; e = T1, "ghost" value
||[!B1] BNOP break?
 ADD $S0hi,$T2hi,$T2hi
|| ADDU $S0lo,$T2carry:$T2lo,$T2carry:$T2lo ; T2 += Sigma0(a)
|| [B1] LDDW *$K512++,$Khi:$Klo   ; pre-fetch K512[i]
 NOP      ; avoid cross-path stall
 ADD $T2carry,$T2hi,$Ahi
|| MV $T2lo,$Alo    ; a = T2
|| [B0] SUB B0,1,B0
;;===== branch to loop00_15? is taken here
  [B1] LDW *${Xihi}[2],$T2hi
|| [B1] LDW *${Xilo}[2],$T2lo   ; X[i+1]
|| [B1] SHRU $T1hi,19,$S1hi
|| [B1] SHL $T1hi,32-19,$S1lo
  [B1] SHRU $T1lo,19,$t0lo
|| [B1] SHL $T1lo,32-19,$t0hi
;;===== branch to break? is taken here
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,61-32,$t0lo
|| SHL $T1hi,64-61,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,61-32,$t0hi
|| SHL $T1lo,64-61,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,6,$t0hi
```

```
|| SHL $T1hi,32-6,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,6,$t0lo
|| LDW *${Xihi}[18],$T1hi
|| LDW *${Xilo}[18],$T1lo   ;
 X[i+9]
 XOR $t0lo,$S1lo,$S1lo   ; sigma1(Xi[i+14])

|| LDW *${Xihi}[0],$CHhi
|| LDW *${Xilo}[0],$CHlo   ; X[i]
|| SHRU $T2hi,1,$S0hi
|| SHL $T2hi,32-1,$S0lo
 SHRU $T2lo,1,$t0lo
|| SHL $T2lo,32-1,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2hi,8,$t0hi
|| SHL $T2hi,32-8,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2lo,8,$t0lo
|| SHL $T2lo,32-8,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1lo,$T1carry:$T1lo  ; T1 = X[i+9]+sigma1()
|| SHRU $T2hi,7,$t0hi
|| SHL $T2hi,32-7,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += X[i]
|| SHRU $T2lo,7,$t0lo
|| [B1] BNOP loop16_79?
 XOR $t0lo,$S0lo,$S0lo   ; sigma0(Xi[i+1]

 ADD $S0hi,$T1hi,$T1hi
|| ADDU $S0lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += sigma0()
|| [B1] SUB B1,1,B1
 NOP      ; avoid cross-path stall
 ADD $T1carry,$T1hi,$T1hi

    STW $T1hi,*$Xihi++[2]   ; copied "top" bundle
|| STW $T1lo,*$Xilo++[2]   ; X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo  ; T1 += h
|| SHRU $Ehi,14,$S1hi
```

```
|| SHL $Ehi,32-14,$S1lo
;;===== branch to loop16_79? is taken here

break?:
 ADD $Ahi,$Actxhi,$Ahi  ; accumulate ctx
|| ADDU $Alo,$Actxlo,$Actxlo:$Alo
|| [A0] LDNDW *$INP++,B11:B10   ; pre-fetch input
|| [A0] ADDK -640,$K512   ; rewind pointer to K512
 ADD $Bhi,$Bctxhi,$Bhi
|| ADDU $Blo,$Bctxlo,$Bctxlo:$Blo
|| [A0] LDDW *$K512++,$Khi:$Klo  ; pre-fetch K512[0]
 ADD $Chi,$Cctxhi,$Chi
|| ADDU $Clo,$Cctxlo,$Cctxlo:$Clo
|| ADD $Actxlo,$Ahi,$Ahi
||[!A0] MV $CTXA,$CTXB
 ADD $Dhi,$Dctxhi,$Dhi
|| ADDU $Dlo,$Dctxlo,$Dctxlo:$Dlo
|| ADD $Bctxlo,$Bhi,$Bhi
||[!A0] STW $Ahi,*${CTXA}[0^.LITTLE_ENDIAN] ; save ctx
||[!A0] STW $Alo,*${CTXB}[1^.LITTLE_ENDIAN]
 ADD $Ehi,$Ectxhi,$Ehi
|| ADDU $Elo,$Ectxlo,$Ectxlo:$Elo
|| ADD $Cctxlo,$Chi,$Chi
|| [A0] BNOP outerloop?
||[!A0] STW $Bhi,*${CTXA}[2^.LITTLE_ENDIAN]
||[!A0] STW $Blo,*${CTXB}[3^.LITTLE_ENDIAN]
 ADD $Fhi,$Fctxhi,$Fhi
|| ADDU $Flo,$Fctxlo,$Fctxlo:$Flo
|| ADD $Dctxlo,$Dhi,$Dhi
||[!A0] STW $Chi,*${CTXA}[4^.LITTLE_ENDIAN]
||[!A0] STW $Clo,*${CTXB}[5^.LITTLE_ENDIAN]
 ADD $Ghi,$Gctxhi,$Ghi
|| ADDU $Glo,$Gctxlo,$Gctxlo:$Glo
|| ADD $Ectxlo,$Ehi,$Ehi
||[!A0] STW $Dhi,*${CTXA}[6^.LITTLE_ENDIAN]
||[!A0] STW $Dlo,*${CTXB}[7^.LITTLE_ENDIAN]
 ADD $Hhi,$Hctxhi,$Hhi
|| ADDU $Hlo,$Hctxlo,$Hctxlo:$Hlo
|| ADD $Fctxlo,$Fhi,$Fhi
||[!A0] STW $Ehi,*${CTXA}[8^.LITTLE_ENDIAN]
||[!A0] STW $Elo,*${CTXB}[9^.LITTLE_ENDIAN]
 ADD $Gctxlo,$Ghi,$Ghi
||[!A0] STW $Fhi,*${CTXA}[10^.LITTLE_ENDIAN]
||[!A0] STW $Flo,*${CTXB}[11^.LITTLE_ENDIAN]
 ADD $Hctxlo,$Hhi,$Hhi
||[!A0] STW $Ghi,*${CTXA}[12^.LITTLE_ENDIAN]
||[!A0] STW $Glo,*${CTXB}[13^.LITTLE_ENDIAN]
;;=====
```

```
 branch to outerloop? is taken here

 STW $Hhi,*${CTXA}[14^.LITTLE_ENDIAN]
|| STW $Hlo,*${CTXB}[15^.LITTLE_ENDIAN]
|| MVK -40,B0
 ADD FP,B0,SP   ; destroy circular buffer
|| LDDW *FP[-4],A11:A10
 LDDW *SP[2],A13:A12
|| LDDW *FP[-2],B11:B10
 LDDW *SP[4],B13:B12
|| BNOP RA
 LDW *++SP(40),FP   ;
 restore frame pointer
 MVK 0,B0
 MVC B0,AMR    ; clear AMR
 NOP 2    ; wait till FP is committed
 .endasmfunc

 .if __TI_EABI__
 .sect ".text:sha_asm.const"
 .else
 .sect ".const:sha_asm"
 .endif
 .align 128
K512:
 .uword 0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
 .uword 0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0x8189dbbc
 .uword 0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019
 .uword 0x923f82a4,0xaf194f9b, 0xab1c5ed5,0xda6d8118
 .uword 0xd807aa98,0xa3030242, 0x12835b01,0x45706fbe
 .uword 0x243185be,0x4ee4b28c, 0x550c7dc3,0xd5ffb4e2
 .uword 0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696b1
 .uword 0x9bdc06a7,0x25c71235, 0xc19bf174,0xcf692694
 .uword 0xe49b69c1,0x9ef14ad2, 0xefbe4786,0x384f25e3
 .uword 0x0fc19dc6,0x8b8cd5b5, 0x240ca1cc,0x77ac9c65
 .uword 0x2de92c6f,0x592b0275, 0x4a7484aa,0x6ea6e483
 .uword 0x5cb0a9dc,0xbd41fbd4, 0x76f988da,0x831153b5
 .uword 0x983e5152,0xee66dfab, 0xa831c66d,0x2db43210
 .uword 0xb00327c8,0x98fb213f,
 0xbf597fc7,0xbeef0ee4
 .uword 0xc6e00bf3,0x3da88fc2, 0xd5a79147,0x930aa725
 .uword 0x06ca6351,0xe003826f, 0x14292967,0x0a0e6e70
 .uword 0x27b70a85,0x46d22ffc, 0x2e1b2138,0x5c26c926
 .uword 0x4d2c6dfc,0x5ac42aed, 0x53380d13,0x9d95b3df
 .uword 0x650a7354,0x8baf63de, 0x766a0abb,0x3c77b2a8
 .uword 0x81c2c92e,0x47edaee6, 0x92722c85,0x1482353b
 .uword 0xa2bfe8a1,0x4cf10364, 0xa81a664b,0xbc423001
 .uword 0xc24b8b70,0xd0f89791, 0xc76c51a3,0x0654be30
```

```
.uword 0xd192e819,0xd6ef5218, 0xd6990624,0x5565a910
.uword 0xf40e3585,0x5771202a, 0x106aa070,0x32bbd1b8
.uword 0x19a4c116,0xb8d2d0c8, 0x1e376c08,0x5141ab53
.uword 0x2748774c,0xdf8eeb99, 0x34b0bcb5,0xe19b48a8
.uword 0x391c0cb3,0xc5c95a63, 0x4ed8aa4a,0xe3418acb
.uword 0x5b9cca4f,0x7763e373, 0x682e6ff3,0xd6b2b8a3
.uword 0x748f82ee,0x5defb2fc, 0x78a5636f,0x43172f60
.uword 0x84c87814,0xa1f0ab72, 0x8cc70208,0x1a6439ec
.uword 0x90befffa,0x23631e28, 0xa4506ceb,0xde82bde9
.uword 0xbef9a3f7,0xb2c67915, 0xc67178f2,0xe372532b
.uword 0xca273ece,0xea26619c,
0xd186b8c7,0x21c0c207
.uword 0xeada7dd6,0xcde0eb1e, 0xf57d4f7f,0xee6ed178
.uword 0x06f067aa,0x72176fba, 0x0a637dc5,0xa2c898a6
.uword 0x113f9804,0xbef90dae, 0x1b710b35,0x131c471b
.uword 0x28db77f5,0x23047d84, 0x32caab7b,0x40c72493
.uword 0x3c9ebe0a,0x15c9bebc, 0x431d67c4,0x9c100d4c
.uword 0x4cc5d4be,0xcb3e42b6, 0x597f299c,0xfc657e2a
.uword 0x5fcb6fab,0x3ad6faec, 0x6c44198c,0x4a475817
.cstring "SHA512 block transform for C64x, CRYPTOGAMS by <appro\@openssl.org>"
.align 4
___

print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsa_sign.c
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```
#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# SHA1 for C64x.
#
# November 2016
#
# This is fully-unrolled SHA1 implementation. It's 25% faster than
# one with compact loops, doesn't use in-memory ring buffer, as
# everything is accomodated in registers, and has "perfect" interrupt
# agility. Drawback is obviously the code size...

while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

($CTX,$INP,$NUM) = ("A4","B4","A6");  # arguments

($A,$B,$C,$D,$E, $Arot,$F,$F0,$K) = map("A$_",(16..20, 21..24));
@V = ($A,$B,$C,$D,$E);
@X
 = map("B$_",(16..31));
($Actx,$Bctx,$Cctx,$Dctx,$Ectx) = map("A$_",(3,6..9)); # zaps $NUM

sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

$code.=<<___    if ($i<14);
 ROTL $a,5,$Arot  ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e  ; E+=K
||  LDNW *${INP}++,@X[$i+2]
 OR $F0,$F,$F  ; F_00_19(B,C,D)
|| ROTL $b,30,$b
||  SWAP2 @X[$i+1],@X[$i+1]
|| ADD @X[$i],$e,$e  ; E+=X[i]
```

```
 ADD $Arot,$e,$e  ; E+=rot(A,5)
||  SWAP4 @X[$i+1],@X[$i+1]
 ADD $F,$e,$e  ; E+=F_00_19(B,C,D)

___
$code.=<<___    if ($i==14);
 ROTL $a,5,$Arot  ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e  ; E+=K
 OR $F0,$F,$F  ; F_00_19(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i],$e,$e  ; E+=X[i]
||  SWAP2 @X[$i+1],@X[$i+1]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
||  SWAP4 @X[$i+1],@X[$i+1]
 ADD $F,$e,$e  ; E+=F_00_19(B,C,D)

___
$code.=<<___    if ($i==15);
||  XOR @X[($j+2)&15],@X[$j],@X[$j]
 ROTL $a,5,$Arot  ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e  ; E+=K
||  XOR @X[($j+8)&15],@X[$j],@X[$j]
 OR $F0,$F,$F  ;
 F_00_19(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i],$e,$e  ; E+=X[i]
||  XOR @X[($j+13)&15],@X[$j],@X[$j]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
||  ROTL @X[$j],1,@X[$j]
 ADD $F,$e,$e  ; E+=F_00_19(B,C,D)

___
$code.=<<___    if ($i>15);
||  XOR @X[($j+2)&15],@X[$j],@X[$j]
 ROTL $a,5,$Arot  ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e  ; E+=K
||  XOR @X[($j+8)&15],@X[$j],@X[$j]
 OR $F0,$F,$F  ; F_00_19(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i&15],$e,$e  ; E+=X[i]
||  XOR @X[($j+13)&15],@X[$j],@X[$j]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
||  ROTL @X[$j],1,@X[$j]
 ADD $F,$e,$e  ; E+=F_00_19(B,C,D)

___
```

```
}

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

$code.=<<___    if ($i<79);
||  XOR @X[($j+2)&15],@X[$j],@X[$j]
 ROTL $a,5,$Arot  ;; $i
|| XOR $c,$b,$F
|| ADD $K,$e,$e  ; E+=K
||  XOR @X[($j+8)&15],@X[$j],@X[$j]
 XOR $d,$F,$F  ; F_20_39(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i&15],$e,$e  ; E+=X[i]
||  XOR @X[($j+13)&15],@X[$j],@X[$j]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
||
 ROTL @X[$j],1,@X[$j]
 ADD $F,$e,$e  ; E+=F_20_39(B,C,D)
___
$code.=<<___    if ($i==79);
|| [A0] B loop?
|| [A0] LDNW *${INP}++,@X[0]  ; pre-fetch input
 ROTL $a,5,$Arot  ;; $i
|| XOR $c,$b,$F
|| ADD $K,$e,$e  ; E+=K
|| [A0] LDNW *${INP}++,@X[1]
 XOR $d,$F,$F  ; F_20_39(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i&15],$e,$e  ; E+=X[i]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
 ADD $F,$e,$e  ; E+=F_20_39(B,C,D)
|| ADD $Bctx,$a,$a  ; accumulate context
|| ADD $Cctx,$b,$b
 ADD $Dctx,$c,$c
|| ADD $Ectx,$d,$d
|| ADD $Actx,$e,$e
;;===== branch to loop? is taken here
___
}

sub BODY_40_59 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

$code.=<<___;
||  XOR @X[($j+2)&15],@X[$j],@X[$j]
```

```
 ROTL $a,5,$Arot  ;; $i
|| AND $c,$b,$F
|| AND $d,$b,$F0
|| ADD $K,$e,$e  ; E+=K
||  XOR @X[($j+8)&15],@X[$j],@X[$j]
 XOR $F0,$F,$F
|| AND $c,$d,$F0
|| ROTL $b,30,$b
||  XOR @X[($j+13)&15],@X[$j],@X[$j]
|| ADD @X[$i&15],$e,$e  ; E+=X[i]
 XOR $F0,$F,$F  ; F_40_59(B,C,D)
|| ADD $Arot,$e,$e  ; E+=rot(A,5)
||  ROTL @X[$j],1,@X[$j]
 ADD $F,$e,$e  ;
 E+=F_20_39(B,C,D)
___
}

$code=<<___;
 .text

 .if .ASSEMBLER_VERSION<7000000
 .asg 0,__TI_EABI__
 .endif
 .if __TI_EABI__
 .asg sha1_block_data_order,_sha1_block_data_order
 .endif

 .asg B3,RA
 .asg A15,FP
 .asg B15,SP

 .if .BIG_ENDIAN
 .asg MV,SWAP2
 .asg MV,SWAP4
 .endif

 .global _sha1_block_data_order
_sha1_block_data_order:
 .asmfunc
 MV $NUM,A0   ; reassign $NUM
 [!A0] BNOP RA   ; if ($NUM==0) return;
|| [A0] LDW *${CTX}[0],$A  ; load A-E...
  [A0] LDW *${CTX}[1],$B
  [A0] LDW *${CTX}[2],$C
  [A0] LDW *${CTX}[3],$D
  [A0] LDW *${CTX}[4],$E
  [A0] LDNW *${INP}++,@X[0]  ; pre-fetch input
```

```
 [A0] LDNW *${INP}++,@X[1]
 NOP 3

loop?:
 SUB A0,1,A0
|| MV $A,$Actx
|| MVD $B,$Bctx
|| SWAP2 @X[0],@X[0]
|| MVKL 0x5a827999,$K
 MVKH 0x5a827999,$K  ; K_00_19
|| MV $C,$Cctx
|| MV $D,$Dctx
|| MVD $E,$Ectx
|| SWAP4 @X[0],@X[0]
___
for ($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
|| MVKL 0x6ed9eba1,$K
 MVKH 0x6ed9eba1,$K  ; K_20_39
___
for
 (;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
|| MVKL 0x8f1bbcdc,$K
 MVKH 0x8f1bbcdc,$K  ; K_40_59
___
for (;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
|| MVKL 0xca62c1d6,$K
 MVKH 0xca62c1d6,$K  ; K_60_79
___
for (;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
 BNOP RA   ; return
 STW $A,*${CTX}[0]  ; emit A-E...
 STW $B,*${CTX}[1]
 STW $C,*${CTX}[2]
 STW $D,*${CTX}[3]
 STW $E,*${CTX}[4]
 .endasmfunc

 .sect .const
 .cstring "SHA1 block transform for C64x, CRYPTOGAMS by <appro\@openssl.org>"
 .align 4
___

print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86_64-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-586.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-armv8.pl
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-x86_64.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/sparcv9-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/ppc-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-alpha.pl
*
 /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-sparcv9a.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-sha1-x86_64.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-586.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-x86_64.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-thumb.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-parisc.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-sparcv9.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512p8-ppc.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-armv4.pl
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*
 /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-sparcv9.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-armv4.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-sparcv9.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-c64xplus.pl

* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-c64x.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86_64-gf2m.pl
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/parisc-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-c64xplus.pl
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-ia64.pl
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 /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-ia64.pl
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-c64xplus.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-armv4-large.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-x86_64.pl
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#
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# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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# ====================================================================
#
# December 2011
#
# The module implements GCM GHASH function and underlying single
# multiplication operation in GF(2^128). Even though subroutines
# have _4bit suffix, they are not using any tables, but rely on
# hardware Galois Field Multiply support. Streamed GHASH processes
# byte in ~7 cycles, which is >6x faster than "4-bit" table-driven
```

```
# code compiled with TI's cl6x 6.0 with -mv6400+ -o2 flags. We are
# comparing apples vs. oranges, but compiler surely could have done
# better, because theoretical
 [though not necessarily achievable]
# estimate for "4-bit" table-driven implementation is ~12 cycles.

while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

($Xip,$Htable,$inp,$len)=("A4","B4","A6","B6"); # arguments

($Z0,$Z1,$Z2,$Z3, $H0, $H1, $H2, $H3,
   $H0x,$H1x,$H2x,$H3x)=map("A$_",(16..27));
($H01u,$H01y,$H2u,$H3u, $H0y,$H1y,$H2y,$H3y,
   $H0z,$H1z,$H2z,$H3z)=map("B$_",(16..27));
($FF000000,$E10000)=("B30","B31");
($xip,$x0,$x1,$xib)=map("B$_",(6..9)); # $xip zaps $len
$xia="A9";
($rem,$res)=("B4","B5");  # $rem zaps $Htable

$code.=<<___;
 .text

 .asg B3,RA

 .if 0
 .global _gcm_gmult_1bit
_gcm_gmult_1bit:
 ADDAD $Htable,2,$Htable
 .endif
 .global _gcm_gmult_4bit
_gcm_gmult_4bit:
 .asmfunc
 LDDW *${Htable}[-1],$H1:$H0 ; H.lo
 LDDW *${Htable}[-2],$H3:$H2 ; H.hi
|| MV $Xip,${xip}  ; reassign Xi
|| MVK 15,B1   ; SPLOOPD constant

 MVK 0xE1,$E10000
|| LDBU *++${xip}[15],$x1 ; Xi[15]
 MVK 0xFF,$FF000000
|| LDBU *--${xip},$x0  ; Xi[14]
 SHL $E10000,16,$E10000 ;
 [pre-shifted] reduction polynomial
 SHL $FF000000,24,$FF000000 ; upper byte mask
|| BNOP ghash_loop?
|| MVK 1,B0   ; take a single spin
```

```
 PACKH2 $H0,$H1,$xia  ; pack H0' and H1's upper bytes
 AND $H2,$FF000000,$H2u ; H2's upper byte
 AND $H3,$FF000000,$H3u ; H3's upper byte
|| SHRU $H2u,8,$H2u
 SHRU $H3u,8,$H3u
|| ZERO $Z1:$Z0
 SHRU2 $xia,8,$H01u
|| ZERO $Z3:$Z2
 .endasmfunc

 .global _gcm_ghash_4bit
_gcm_ghash_4bit:
 .asmfunc
 LDDW *${Htable}[-1],$H1:$H0 ; H.lo
|| SHRU $len,4,B0  ; reassign len
 LDDW *${Htable}[-2],$H3:$H2 ; H.hi
|| MV $Xip,${xip}  ; reassign Xi
|| MVK 15,B1   ; SPLOOPD constant

 MVK 0xE1,$E10000
|| [B0] LDNDW *${inp}[1],$H1x:$H0x
 MVK 0xFF,$FF000000
|| [B0] LDNDW *${inp}++[2],$H3x:$H2x
 SHL $E10000,16,$E10000 ; [pre-shifted] reduction polynomial
|| LDDW *${xip}[1],$Z1:$Z0
 SHL $FF000000,24,$FF000000 ; upper byte mask
|| LDDW *${xip}[0],$Z3:$Z2

 PACKH2 $H0,$H1,$xia  ; pack H0' and H1's upper bytes
 AND $H2,$FF000000,$H2u ; H2's upper byte
 AND $H3,$FF000000,$H3u ;
 H3's upper byte
|| SHRU $H2u,8,$H2u
 SHRU $H3u,8,$H3u
 SHRU2 $xia,8,$H01u

|| [B0] XOR $H0x,$Z0,$Z0  ; Xi^=inp
|| [B0] XOR $H1x,$Z1,$Z1
 .if .LITTLE_ENDIAN
  [B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] SHRU $Z1,24,$xia  ; Xi[15], avoid cross-path stall
 STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z1,16,$x0  ; Xi[14]
|| [B0] ZERO $Z1:$Z0
 .else
  [B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
```

```
|| [B0] MV $Z0,$xia  ; Xi[15], avoid cross-path stall
 STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z0,8,$x0  ; Xi[14]
|| [B0] ZERO $Z1:$Z0
 .endif
 STDW $Z3:$Z2,*${xip}[0]
|| [B0] ZERO $Z3:$Z2
|| [B0] MV $xia,$x1
  [B0] ADDK 14,${xip}

ghash_loop?:
 SPLOOPD 6   ; 6*16+7
|| MVC B1,ILC
|| [B0] SUB B0,1,B0
|| ZERO A0
|| ADD $x1,$x1,$xib  ; SHL $x1,1,$xib
|| SHL $x1,1,$xia
___

########_____________________________
#  0    D2.     M1          M2      |
#  1           M1                  |
#  2           M1          M2      |
#  3       D1. M1          M2      |
#  4       S1. L1
          |
#  5    S2  S1x L1          D2  L2  |_____________________________
#  6/0         L1  S1      L2  S2x |D2.     M1          M2      |
#  7/1         L1  S1  D1x S2  M2  |       M1                    |
#  8/2             S1  L1x S2      |       M1          M2      |
#  9/3             S1  L1x         |    D1. M1         M2      |
# 10/4                 D1x         |    S1. L1                 |
# 11/5                             |S2  S1x L1         D2  L2  |_____________
# 12/6/0               D1x       __|       L1  S1      L2  S2x |D2.     ....
#    7/1                               L1  S1  D1x S2  M2  |       ....
#    8/2                                   S1  L1x S2      |       ....
######...                                  ................|............
$code.=<<___;
 XORMPY $H0,$xia,$H0x  ; 0 ; HXi[i]
|| XORMPY $H01u,$xib,$H01y
|| [A0] LDBU *--${xip},$x0
 XORMPY $H1,$xia,$H1x  ; 1
 XORMPY $H2,$xia,$H2x  ; 2
|| XORMPY $H2u,$xib,$H2y
 XORMPY $H3,$xia,$H3x  ;
 3
|| XORMPY $H3u,$xib,$H3y
||[!A0] MVK.D 15,A0    ; *--${xip} counter
```

```
 XOR.L $H0x,$Z0,$Z0  ; 4 ; Z^=HXi[i]
|| [A0] SUB.S A0,1,A0
 XOR.L $H1x,$Z1,$Z1  ; 5
|| AND.D $H01y,$FF000000,$H0z
|| SWAP2.L $H01y,$H1y  ; ; SHL $H01y,16,$H1y
|| SHL $x0,1,$xib
|| SHL $x0,1,$xia

 XOR.L $H2x,$Z2,$Z2  ; 6/0 ; [0,0] in epilogue
|| SHL $Z0,1,$rem  ; ; rem=Z<<1
|| SHRMB.S $Z1,$Z0,$Z0  ; ; Z>>=8
|| AND.L $H1y,$FF000000,$H1z
 XOR.L $H3x,$Z3,$Z3  ; 7/1
|| SHRMB.S $Z2,$Z1,$Z1
|| XOR.D $H0z,$Z0,$Z0   ; merge upper byte products
|| AND.S $H2y,$FF000000,$H2z
|| XORMPY $E10000,$rem,$res ; ; implicit rem&0x1FE
 XOR.L $H1z,$Z1,$Z1  ; 8/2
|| SHRMB.S $Z3,$Z2,$Z2
|| AND.S $H3y,$FF000000,$H3z
 XOR.L $H2z,$Z2,$Z2  ; 9/3
|| SHRU $Z3,8,$Z3
 XOR.D $H3z,$Z3,$Z3  ; 10/4
 NOP    ; 11/5

 SPKERNEL 0,2
|| XOR.D $res,$Z3,$Z3  ; 12/6/0; Z^=res

 ; input pre-fetch is possible where D1 slot is available...
  [B0] LDNDW *${inp}[1],$H1x:$H0x ; 8/-
  [B0] LDNDW *${inp}++[2],$H3x:$H2x ; 9/-
 NOP    ; 10/-
 .if .LITTLE_ENDIAN
 SWAP2 $Z0,$Z1   ;
 11/-
|| SWAP4 $Z1,$Z0
 SWAP4 $Z1,$Z1   ; 12/-
|| SWAP2 $Z0,$Z0
 SWAP2 $Z2,$Z3
|| SWAP4 $Z3,$Z2
||[!B0] BNOP RA
 SWAP4 $Z3,$Z3
|| SWAP2 $Z2,$Z2
|| [B0] BNOP ghash_loop?
  [B0] XOR $H0x,$Z0,$Z0  ; Xi^=inp
|| [B0] XOR $H1x,$Z1,$Z1
  [B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
```

```
|| [B0] SHRU $Z1,24,$xia  ; Xi[15], avoid cross-path stall
 STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z1,16,$x0  ; Xi[14]
|| [B0] ZERO $Z1:$Z0
 .else
 [!B0] BNOP RA   ; 11/-
  [B0] BNOP ghash_loop?  ; 12/-
  [B0] XOR $H0x,$Z0,$Z0  ; Xi^=inp
|| [B0] XOR $H1x,$Z1,$Z1
  [B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] MV $Z0,$xia  ; Xi[15], avoid cross-path stall
 STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z0,8,$x0  ; Xi[14]
|| [B0] ZERO $Z1:$Z0
 .endif
 STDW $Z3:$Z2,*${xip}[0]
|| [B0] ZERO $Z3:$Z2
|| [B0] MV $xia,$x1
  [B0] ADDK 14,${xip}
 .endasmfunc

 .sect .const
 .cstring "GHASH for C64x+, CRYPTOGAMS by <appro\@openssl.org>"
 .align 4
___

print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/des_locl.h
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/objects/obj_dat.h
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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
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# ====================================================================
#
# February 2012
#
# The module implements bn_GF2m_mul_2x2 polynomial multiplication
# used in bn_gf2m.c. It's kind of low-hanging mechanical port from
# C for the time being... The subroutine runs in 37 cycles, which is
# 4.5x faster than compiler-generated code. Though comparison is
# totally unfair, because this module utilizes Galois Field Multiply
```

```
# instruction.

while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

($rp,$a1,$a0,$b1,$b0)=("A4","B4","A6","B6","A8");   # argument
 vector

($Alo,$Alox0,$Alox1,$Alox2,$Alox3)=map("A$_",(16..20));
($Ahi,$Ahix0,$Ahix1,$Ahix2,$Ahix3)=map("B$_",(16..20));
($B_0,$B_1,$B_2,$B_3)=("B5","A5","A7","B7");
($A,$B)=($Alo,$B_1);
$xFF="B1";

sub mul_1x1_upper {
my ($A,$B)=@_;
$code.=<<___;
 EXTU $B,8,24,$B_2  ; smash $B to 4 bytes
|| AND $B,$xFF,$B_0
|| SHRU $B,24,$B_3
 SHRU $A,16,   $Ahi  ; smash $A to two halfwords
|| EXTU $A,16,16,$Alo

 XORMPY $Alo,$B_2,$Alox2 ; 16x8 bits muliplication
|| XORMPY $Ahi,$B_2,$Ahix2
|| EXTU $B,16,24,$B_1
 XORMPY $Alo,$B_0,$Alox0
|| XORMPY $Ahi,$B_0,$Ahix0
 XORMPY $Alo,$B_3,$Alox3
|| XORMPY $Ahi,$B_3,$Ahix3
 XORMPY $Alo,$B_1,$Alox1
|| XORMPY $Ahi,$B_1,$Ahix1
___
}
sub mul_1x1_merged {
my ($OUTlo,$OUThi,$A,$B)=@_;
$code.=<<___;
  EXTU $B,8,24,$B_2  ; smash $B to 4 bytes
||  AND $B,$xFF,$B_0
||  SHRU $B,24,$B_3
  SHRU $A,16,   $Ahi  ; smash $A to two halfwords
||  EXTU $A,16,16,$Alo

 XOR $Ahix0,$Alox2,$Ahix0
|| MV $Ahix2,$OUThi
||  XORMPY $Alo,$B_2,$Alox2
  XORMPY $Ahi,$B_2,$Ahix2
||  EXTU $B,16,24,$B_1
```

```
||
 XORMPY $Alo,$B_0,A1  ; $Alox0
 XOR $Ahix1,$Alox3,$Ahix1
|| SHL $Ahix0,16,$OUTlo
|| SHRU $Ahix0,16,$Ahix0
 XOR $Alox0,$OUTlo,$OUTlo
|| XOR $Ahix0,$OUThi,$OUThi
||  XORMPY $Ahi,$B_0,$Ahix0
||  XORMPY $Alo,$B_3,$Alox3
|| SHL $Alox1,8,$Alox1
|| SHL $Ahix3,8,$Ahix3
 XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix3,$OUThi,$OUThi
||  XORMPY $Ahi,$B_3,$Ahix3
|| SHL $Ahix1,24,$Alox1
|| SHRU $Ahix1,8, $Ahix1
 XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUThi,$OUThi
||  XORMPY $Alo,$B_1,$Alox1
||  XORMPY $Ahi,$B_1,$Ahix1
||  MV A1,$Alox0
___
}
sub mul_1x1_lower {
my ($OUTlo,$OUThi)=@_;
$code.=<<___;
 ;NOP
 XOR $Ahix0,$Alox2,$Ahix0
|| MV $Ahix2,$OUThi
 NOP
 XOR $Ahix1,$Alox3,$Ahix1
|| SHL $Ahix0,16,$OUTlo
|| SHRU $Ahix0,16,$Ahix0
 XOR $Alox0,$OUTlo,$OUTlo
|| XOR $Ahix0,$OUThi,$OUThi
|| SHL $Alox1,8,$Alox1
|| SHL $Ahix3,8,$Ahix3
 XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix3,$OUThi,$OUThi
|| SHL $Ahix1,24,$Alox1
|| SHRU $Ahix1,8, $Ahix1
 XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUThi,$OUThi
___
}
$code.=<<___;
 .text
```

```
 .global _bn_GF2m_mul_2x2
_bn_GF2m_mul_2x2:
 .asmfunc
 MVK 0xFF,$xFF
___
 &mul_1x1_upper($a0,$b0);  #
 a0b0
$code.=<<___;
|| MV $b1,$B
 MV $a1,$A
___
 &mul_1x1_merged("A28","B28",$A,$B); # a0b0/a1b1
$code.=<<___;
|| XOR $b0,$b1,$B
 XOR $a0,$a1,$A
___
 &mul_1x1_merged("A31","B31",$A,$B); # a1b1/(a0+a1)(b0+b1)
$code.=<<___;
 XOR A28,A31,A29
|| XOR B28,B31,B29   ; a0b0+a1b1
___
 &mul_1x1_lower("A30","B30");  # (a0+a1)(b0+b1)
$code.=<<___;
|| BNOP B3
 XOR A29,A30,A30
|| XOR B29,B30,B30   ; (a0+a1)(b0+b1)-a0b0-a1b1
 XOR B28,A30,A30
|| STW A28,*${rp}[0]
 XOR B30,A31,A31
|| STW A30,*${rp}[1]
 STW A31,*${rp}[2]
 STW B31,*${rp}[3]
 .endasmfunc
___

print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/cmac/fips_cmactest.c
*
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips_rsastest.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_pss.c
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/**
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/ecdsa/ecs_locl.h
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_prime.c
*
 /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_rand.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips_md.c
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/aes/fips_gcmtest.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_hmac.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_ctr.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_rand_lcl.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_selftest.c
*
 /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbgvs.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdh/fips_ecdhvs.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips_ecdsavs.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_hash.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dh/fips_dhvs.c
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while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

$code.=<<___;
 .text

 .if .ASSEMBLER_VERSION<7000000
 .asg 0,__TI_EABI__
 .endif
 .if __TI_EABI__
 .asg OPENSSL_rdtsc,_OPENSSL_rdtsc
 .asg OPENSSL_cleanse,_OPENSSL_cleanse
 .asg CRYPTO_memcmp,_CRYPTO_memcmp
 .asg OPENSSL_atomic_add,_OPENSSL_atomic_add
 .asg OPENSSL_wipe_cpu,_OPENSSL_wipe_cpu
 .asg OPENSSL_instrument_bus,_OPENSSL_instrument_bus
 .asg OPENSSL_instrument_bus2,_OPENSSL_instrument_bus2
 .endif

 .asg B3,RA
 .asg 0x01AC0000,TIMER_BASE ; Timer 2

 .global _OPENSSL_rdtsc
_OPENSSL_rdtsc:
 .asmfunc
 MVKL TIMER_BASE,A5
 MVKH TIMER_BASE,A5
 LDW *A5[0],A2 ;
 load CTL
 LDW *A5[2],A4 ; load CTN
 NOP 2
 .if .BIG_ENDIAN
 MVK 0x2c0,A7 ; internal clock source, don't hold, go
|| MVK -1,A6  ; maximum period
 .else
 MVK 0x2c0,A6 ; internal clock source, don't hold, go
|| MVK -1,A7  ; maximum period
```

```
 .endif
 [!A2] STDW A7:A6,*A5[0] ; fire it up
|| BNOP RA,5
 .endasmfunc

 .global _OPENSSL_cleanse
_OPENSSL_cleanse:
 .asmfunc
 ZERO A3:A2
|| ZERO B2
|| SHRU B4,3,B0  ; is length >= 8
|| ADD 1,A4,B6
 [!B0] BNOP RA
|| [B0] SUB B0,1,B2
|| ZERO A1
|| ZERO B1
  [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 0,B4,A1
||[!B0] CMPLT 1,B4,B1
|| ZERO B5
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 2,B4,A1
||[!B0] CMPLT 3,B4,B1
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 4,B4,A1
||[!B0] CMPLT 5,B4,B1
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 6,B4,A1
  [A1] STB A2,*A4++[2]
||
 [B2] BDEC cleanse_loop?,B2

cleanse_loop?:
 STNDW A3:A2,*A4++
|| SUB B4,8,B4
|| [B2] BDEC cleanse_loop?,B2

 MV B4,B0  ; remaining bytes
|| ADD 1,A4,B6
|| BNOP RA
  [B0] CMPLT 0,B0,A1
|| [B0] CMPLT 1,B0,B1
```

```
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B0] CMPLT 2,B0,A1
|| [B0] CMPLT 3,B0,B1
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B0] CMPLT 4,B0,A1
|| [B0] CMPLT 5,B0,B1
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B0] CMPLT 6,B0,A1
  [A1] STB A2,*A4++[2]
 .endasmfunc

 .if 0
 .global _CRYPTO_memcmp
_CRYPTO_memcmp:
 .asmfunc
 MV A6,B0
 [!B0] BNOP RA
||[!B0] ZERO A4
|| [B0] ZERO A1:A0
  [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
  [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
  [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
  [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
  [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
 XOR A5,B5,A1
||
 [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0

memcmp_loop?:
 OR A1,A0,A0
|| XOR A5,B5,A1
|| [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
```

```
|| [B0] BDEC memcmp_loop?,B0

 BNOP RA,3
 ZERO A4
 [A0] MVK 1,A4
 .endasmfunc
 .endif

 .global _OPENSSL_atomic_add
_OPENSSL_atomic_add:
 .asmfunc
 BNOP atomic_store? ; pre-C64x+ systems are uni-processor, it's
|| LDW *A4,B5  ; enough to hold interrupts off through
    ; the load-update-store cycle to achieve
    ; atomicity
 NOP
 BNOP RA,3  ; and this branch stretches even over store
 ADD B4,B5,B5
atomic_store?:
 STW B5,*A4
|| MV B5,A4
 .endasmfunc

 .global _OPENSSL_wipe_cpu
_OPENSSL_wipe_cpu:
 .asmfunc
 ZERO A0
|| ZERO B0
|| ZERO A1
|| ZERO B1
 ZERO A3:A2
|| MVD B0,B2
|| ZERO A4
|| ZERO B4
|| ZERO A5
|| ZERO B5
|| BNOP RA
 ZERO A7:A6
|| ZERO B7:B6
|| ZERO A8
|| ZERO B8
|| ZERO A9
|| ZERO B9
 ZERO A17:A16
|| ZERO B17:B16
|| ZERO A18
|| ZERO B18
|| ZERO A19
```

```
|| ZERO B19
 ZERO A21:A20
|| ZERO B21:B20
|| ZERO A22
|| ZERO B22
|| ZERO A23
|| ZERO B23
 ZERO A25:A24
|| ZERO B25:B24
|| ZERO A26
|| ZERO B26
|| ZERO A27
|| ZERO B27
 ZERO A29:A28
|| ZERO B29:B28
|| ZERO A30
|| ZERO B30
|| ZERO A31
|| ZERO B31
 .endasmfunc

CLFLUSH .macro CONTROL,ADDR,LEN
 B passthrough?
|| STW ADDR,*CONTROL[0]
 STW LEN,*CONTROL[1]
spinlock?:
 LDW *CONTROL[1],A0
 NOP 3
passthrough?:
 NOP
  [A0] BNOP spinlock?,5
 .endm

 .global _OPENSSL_instrument_bus
_OPENSSL_instrument_bus:
 .asmfunc
 MV B4,B0   ; reassign sizeof(output)
|| MV A4,B4   ; reassign output
|| MVK 0x00004030,A3
|| MVKL TIMER_BASE,B16
 MV B0,A4   ; return value
|| MVK 1,A1
|| MVKH 0x01840000,A3  ; L1DWIBAR
|| MVKH TIMER_BASE,B16
 LDW *B16[2],B8  ; collect 1st tick
|| MVK 0x00004010,A5
 NOP 4
 MV B8,B9   ; lasttick = tick
```

```
|| MVK 0,B7   ; lastdiff = 0
|| MVKH 0x01840000,A5  ; L2WIBAR
 CLFLUSH A3,B4,A1  ; write-back and invalidate L1D line
 CLFLUSH A5,B4,A1  ; write-back and invalidate L2 line
 LDW *B4,B5
 NOP 4
 ADD B7,B5,B5
 STW B5,*B4
bus_loop1?:
 LDW *B16[2],B8
||
 [B0] SUB B0,1,B0
 NOP 4
 SUB B8,B9,B7  ; lastdiff = tick - lasttick
|| MV B8,B9   ; lasttick = tick
 CLFLUSH A3,B4,A1  ; write-back and invalidate L1D line
 CLFLUSH A5,B4,A1  ; write-back and invalidate L2 line
 LDW *B4,B5
 NOP 4
 ADD B7,B5,B5
 STW B5,*B4   ; [!B1] is removed to flatten samples
|| ADDK 4,B4
|| [B0] BNOP bus_loop1?,5

 BNOP RA,5
 .endasmfunc

 .global _OPENSSL_instrument_bus2
_OPENSSL_instrument_bus2:
 .asmfunc
 MV A6,B0   ; reassign max
|| MV B4,A6   ; reassing sizeof(output)
|| MVK 0x00004030,A3
|| MVKL TIMER_BASE,B16
 MV A4,B4   ; reassign output
|| MVK 0,A4   ; return value
|| MVK 1,A1
|| MVKH 0x01840000,A3  ; L1DWIBAR
|| MVKH TIMER_BASE,B16

 LDW *B16[2],B8  ; collect 1st tick
|| MVK 0x00004010,A5
 NOP 4
 MV B8,B9   ; lasttick = tick
|| MVK 0,B7   ; lastdiff = 0
|| MVKH 0x01840000,A5  ; L2WIBAR
 CLFLUSH A3,B4,A1  ; write-back and invalidate L1D line
 CLFLUSH A5,B4,A1  ; write-back and invalidate L2 line
```

```
 LDW *B4,B5
 NOP 4
 ADD B7,B5,B5
 STW B5,*B4

 LDW *B16[2],B8  ;
 collect 1st diff
 NOP 4
 SUB B8,B9,B7  ; lastdiff = tick - lasttick
|| MV B8,B9   ; lasttick = tick
|| SUB B0,1,B0
bus_loop2?:
 CLFLUSH A3,B4,A1  ; write-back and invalidate L1D line
 CLFLUSH A5,B4,A1  ; write-back and invalidate L2 line
 LDW *B4,B5
 NOP 4
 ADD B7,B5,B5
 STW B5,*B4   ; [!B1] is removed to flatten samples
||[!B0] BNOP bus_loop2_done?,2
|| SUB B0,1,B0
 LDW *B16[2],B8
 NOP 4
 SUB B8,B9,B8
|| MV B8,B9
 CMPEQ B8,B7,B2
|| MV B8,B7
 [!B2] ADDAW B4,1,B4
||[!B2] ADDK 1,A4
 CMPEQ A4,A6,A2
 [!A2] BNOP bus_loop2?,5

bus_loop2_done?:
 BNOP RA,5
 .endasmfunc

 .if __TI_EABI__
 .sect ".init_array"
 .else
 .sect ".pinit"
 .endif
 .align 4
 .long _OPENSSL_rdtsc  ; auto-start timer
___

print $code;
close STDOUT;

Found in path(s):
```

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*
* Contributed by Steve Marquess.
*
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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
```

```
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# SHA512 for C64x+.
#
# January 2012
#
# Performance is 19 cycles per processed byte. Compared to block
# transform function from sha512.c compiled with cl6x with -mv6400+
# -o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
# Loop unroll won't make it, this implementation, any faster, because
# it's effectively dominated by SHRU||SHL pairs and you can't schedule
# more of them.
#
# !!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve
 it and for own well-being
# zero it upon entry.

while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6");            # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi,         $T2hi)=         ("A6","A7");
($T1lo,$T1carry,$T2lo,$T2carry)=("B6","B7","B8","B9");
($Khi,$Klo)=("A9","A8");
($MAJhi,$MAJlo)=($T2hi,$T2lo);
($t1hi,$t1lo)=($Khi,"B2");
$CTXB=$t1lo;

($Xihi,$Xilo)=("A5","B5");   # circular/ring buffer

$code.=<<___;
 .text

 .asg B3,RA
 .asg A15,FP
```

```
 .asg B15,SP

 .if .BIG_ENDIAN
 .asg $Khi,KHI
 .asg $Klo,KLO
 .else
 .asg $Khi,KLO
 .asg $Klo,KHI
 .endif

 .global _sha512_block_data_order
_sha512_block_data_order:
 .asmfunc
 stack_usage(40+128)
 MV $NUM,A0    ; reassign $NUM
|| MVK -128,B0
 [!A0] BNOP RA    ; if ($NUM==0) return;
|| [A0] STW FP,*SP--(40)   ; save frame pointer
|| [A0] MV SP,FP
  [A0] STDW B13:B12,*SP[4]
|| [A0] MVK 0x00404,B1
  [A0] STDW B11:B10,*SP[3]
|| [A0] STDW A13:A12,*FP[-3]
|| [A0] MVKH 0x60000,B1
  [A0] STDW A11:A10,*SP[1]
|| [A0] MVC B1,AMR    ; setup circular addressing
|| [A0] ADD B0,SP,SP   ; alloca(128)
  [A0] AND B0,SP,SP   ; align stack at 128 bytes
|| [A0] ADDKPC _sha512_block_data_order,B1
|| [A0] MVKL (K512-_sha512_block_data_order),$K512
  [A0] MVKH (K512-_sha512_block_data_order),$K512
|| [A0] SUBAW SP,2,SP    ; reserve two words above buffer
 ADDAW SP,3,$Xilo
 ADDAW SP,2,$Xihi

|| MV $CTXA,$CTXB
 LDW *${CTXA}[0^.LITTLE_ENDIAN],$Ahi ; load ctx
|| LDW *${CTXB}[1^.LITTLE_ENDIAN],$Alo
|| ADD B1,$K512,$K512
 LDW *${CTXA}[2^.LITTLE_ENDIAN],$Bhi
|| LDW *${CTXB}[3^.LITTLE_ENDIAN],$Blo
 LDW *${CTXA}[4^.LITTLE_ENDIAN],$Chi
|| LDW *${CTXB}[5^.LITTLE_ENDIAN],$Clo
 LDW *${CTXA}[6^.LITTLE_ENDIAN],$Dhi
|| LDW *${CTXB}[7^.LITTLE_ENDIAN],$Dlo
 LDW *${CTXA}[8^.LITTLE_ENDIAN],$Ehi
|| LDW *${CTXB}[9^.LITTLE_ENDIAN],$Elo
 LDW *${CTXA}[10^.LITTLE_ENDIAN],$Fhi
```

```
|| LDW *${CTXB}[11^.LITTLE_ENDIAN],$Flo
 LDW *${CTXA}[12^.LITTLE_ENDIAN],$Ghi
|| LDW *${CTXB}[13^.LITTLE_ENDIAN],$Glo
 LDW *${CTXA}[14^.LITTLE_ENDIAN],$Hhi
|| LDW *${CTXB}[15^.LITTLE_ENDIAN],$Hlo

 LDNDW *$INP++,B11:B10   ;
 pre-fetch input
 LDDW *$K512++,$Khi:$Klo  ; pre-fetch K512[0]
outerloop?:
 MVK 15,B0    ; loop counters
|| MVK 64,B1
|| SUB A0,1,A0
 MV $Ahi,$Actxhi
|| MV $Alo,$Actxlo
|| MV $Bhi,$Bctxhi
|| MV $Blo,$Bctxlo
|| MV $Chi,$Cctxhi
|| MV $Clo,$Cctxlo
|| MVD $Dhi,$Dctxhi
|| MVD $Dlo,$Dctxlo
 MV $Ehi,$Ectxhi
|| MV $Elo,$Ectxlo
|| MV $Fhi,$Fctxhi
|| MV $Flo,$Fctxlo
|| MV $Ghi,$Gctxhi
|| MV $Glo,$Gctxlo
|| MVD $Hhi,$Hctxhi
|| MVD $Hlo,$Hctxlo
loop0_15?:
 .if .BIG_ENDIAN
 MV B11,$T1hi
|| MV B10,$T1lo
 .else
 SWAP4 B10,$T1hi
|| SWAP4 B11,$T1lo
 SWAP2 $T1hi,$T1hi
|| SWAP2 $T1lo,$T1lo
 .endif
loop16_79?:
 STW $T1hi,*$Xihi++[2]
|| STW $T1lo,*$Xilo++[2]   ;
 X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo  ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
 XOR $Fhi,$Ghi,$CHhi
```

```
|| XOR $Flo,$Glo,$CHlo
|| ADD KHI,$T1hi,$T1hi
|| ADDU KLO,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += K512[i]
|| SHRU $Elo,14,$t0lo
|| SHL $Elo,32-14,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Ehi,$CHhi,$CHhi
|| AND $Elo,$CHlo,$CHlo
|| ROTL $Ghi,0,$Hhi
|| ROTL $Glo,0,$Hlo    ; h = g
|| SHRU $Ehi,18,$t0hi
|| SHL $Ehi,32-18,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| XOR $Ghi,$CHhi,$CHhi
|| XOR $Glo,$CHlo,$CHlo   ; Ch(e,f,g) = ((f^g)&e)^g
|| ROTL $Fhi,0,$Ghi
|| ROTL $Flo,0,$Glo    ; g = f
|| SHRU $Elo,18,$t0lo
|| SHL $Elo,32-18,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| OR $Ahi,$Bhi,$MAJhi
|| OR $Alo,$Blo,$MAJlo
|| ROTL $Ehi,0,$Fhi
|| ROTL $Elo,0,$Flo    ; f = e
|| SHRU $Ehi,41-32,$t0lo
|| SHL $Ehi,64-41,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Chi,$MAJhi,$MAJhi
|| AND $Clo,$MAJlo,$MAJlo
|| ROTL $Dhi,0,$Ehi
|| ROTL $Dlo,0,$Elo    ;
 e = d
|| SHRU $Elo,41-32,$t0hi
|| SHL $Elo,64-41,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo   ; Sigma1(e)
|| AND $Ahi,$Bhi,$t1hi
|| AND $Alo,$Blo,$t1lo
|| ROTL $Chi,0,$Dhi
|| ROTL $Clo,0,$Dlo    ; d = c
|| SHRU $Ahi,28,$S0hi
|| SHL $Ahi,32-28,$S0lo
 OR $t1hi,$MAJhi,$MAJhi
|| OR $t1lo,$MAJlo,$MAJlo   ; Maj(a,b,c) = ((a|b)&c)|(a&b)
```

```
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Ch(e,f,g)
|| ROTL $Bhi,0,$Chi
|| ROTL $Blo,0,$Clo    ; c = b
|| SHRU $Alo,28,$t0lo
|| SHL $Alo,32-28,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Sigma1(e)
|| ROTL $Ahi,0,$Bhi
|| ROTL $Alo,0,$Blo    ; b = a
|| SHRU $Ahi,34-32,$t0lo
|| SHL $Ahi,64-34,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $MAJhi,$T1hi,$T2hi
|| ADDU $MAJlo,$T1carry:$T1lo,$T2carry:$T2lo ;
 T2 = T1+Maj(a,b,c)
|| SHRU $Alo,34-32,$t0hi
|| SHL $Alo,64-34,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $Ehi,$T1hi,$T1hi
|| ADDU $Elo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += e
|| [B0] BNOP loop0_15?
|| SHRU $Ahi,39-32,$t0lo
|| SHL $Ahi,64-39,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| [B0] LDNDW *$INP++,B11:B10    ; pre-fetch input
||[!B1] BNOP break?
|| SHRU $Alo,39-32,$t0hi
|| SHL $Alo,64-39,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo   ; Sigma0(a)
|| ADD $T1carry,$T1hi,$Ehi
|| MV $T1lo,$Elo    ; e = T1
||[!B0] LDW *${Xihi}[28],$T1hi
||[!B0] LDW *${Xilo}[28],$T1lo   ; X[i+14]
 ADD $S0hi,$T2hi,$T2hi
|| ADDU $S0lo,$T2carry:$T2lo,$T2carry:$T2lo ; T2 += Sigma0(a)
|| [B1] LDDW *$K512++,$Khi:$Klo   ; pre-fetch K512[i]
 NOP      ; avoid cross-path stall
 ADD $T2carry,$T2hi,$Ahi
|| MV $T2lo,$Alo    ; a = T2
|| [B0] SUB B0,1,B0
;;===== branch to loop00_15? is taken here
```

```
 NOP
;;===== branch to break? is taken here
 LDW *${Xihi}[2],$T2hi
|| LDW *${Xilo}[2],$T2lo   ;
 X[i+1]
|| SHRU $T1hi,19,$S1hi
|| SHL $T1hi,32-19,$S1lo
 SHRU $T1lo,19,$t0lo
|| SHL $T1lo,32-19,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,61-32,$t0lo
|| SHL $T1hi,64-61,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,61-32,$t0hi
|| SHL $T1lo,64-61,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,6,$t0hi
|| SHL $T1hi,32-6,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,6,$t0lo
|| LDW *${Xihi}[18],$T1hi
|| LDW *${Xilo}[18],$T1lo   ; X[i+9]
 XOR $t0lo,$S1lo,$S1lo   ; sigma1(Xi[i+14])

|| LDW *${Xihi}[0],$CHhi
|| LDW *${Xilo}[0],$CHlo   ; X[i]
|| SHRU $T2hi,1,$S0hi
|| SHL $T2hi,32-1,$S0lo
 SHRU $T2lo,1,$t0lo
|| SHL $T2lo,32-1,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2hi,8,$t0hi
|| SHL $T2hi,32-8,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2lo,8,$t0lo
|| SHL $T2lo,32-8,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1lo,$T1carry:$T1lo  ;
 T1 = X[i+9]+sigma1()
|| [B1] BNOP loop16_79?
```

```
|| SHRU $T2hi,7,$t0hi
|| SHL $T2hi,32-7,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += X[i]
|| SHRU $T2lo,7,$t0lo
 XOR $t0lo,$S0lo,$S0lo   ; sigma0(Xi[i+1]

 ADD $S0hi,$T1hi,$T1hi
|| ADDU $S0lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += sigma0()
|| [B1] SUB B1,1,B1
 NOP      ; avoid cross-path stall
 ADD $T1carry,$T1hi,$T1hi
;;===== branch to loop16_79? is taken here

break?:
 ADD $Ahi,$Actxhi,$Ahi  ; accumulate ctx
|| ADDU $Alo,$Actxlo,$Actxlo:$Alo
|| [A0] LDNDW *$INP++,B11:B10   ; pre-fetch input
|| [A0] ADDK -640,$K512   ; rewind pointer to K512
 ADD $Bhi,$Bctxhi,$Bhi
|| ADDU $Blo,$Bctxlo,$Bctxlo:$Blo
|| [A0] LDDW *$K512++,$Khi:$Klo  ; pre-fetch K512[0]
 ADD $Chi,$Cctxhi,$Chi
|| ADDU $Clo,$Cctxlo,$Cctxlo:$Clo
|| ADD $Actxlo,$Ahi,$Ahi
||[!A0] MV $CTXA,$CTXB
 ADD $Dhi,$Dctxhi,$Dhi
|| ADDU $Dlo,$Dctxlo,$Dctxlo:$Dlo
|| ADD $Bctxlo,$Bhi,$Bhi
||[!A0] STW $Ahi,*${CTXA}[0^.LITTLE_ENDIAN] ;
 save ctx
||[!A0] STW $Alo,*${CTXB}[1^.LITTLE_ENDIAN]
 ADD $Ehi,$Ectxhi,$Ehi
|| ADDU $Elo,$Ectxlo,$Ectxlo:$Elo
|| ADD $Cctxlo,$Chi,$Chi
|| [A0] BNOP outerloop?
||[!A0] STW $Bhi,*${CTXA}[2^.LITTLE_ENDIAN]
||[!A0] STW $Blo,*${CTXB}[3^.LITTLE_ENDIAN]
 ADD $Fhi,$Fctxhi,$Fhi
|| ADDU $Flo,$Fctxlo,$Fctxlo:$Flo
|| ADD $Dctxlo,$Dhi,$Dhi
||[!A0] STW $Chi,*${CTXA}[4^.LITTLE_ENDIAN]
||[!A0] STW $Clo,*${CTXB}[5^.LITTLE_ENDIAN]
 ADD $Ghi,$Gctxhi,$Ghi
|| ADDU $Glo,$Gctxlo,$Gctxlo:$Glo
|| ADD $Ectxlo,$Ehi,$Ehi
```

```
||[!A0] STW $Dhi,*${CTXA}[6^.LITTLE_ENDIAN]
||[!A0] STW $Dlo,*${CTXB}[7^.LITTLE_ENDIAN]
 ADD $Hhi,$Hctxhi,$Hhi
|| ADDU $Hlo,$Hctxlo,$Hctxlo:$Hlo
|| ADD $Fctxlo,$Fhi,$Fhi
||[!A0] STW $Ehi,*${CTXA}[8^.LITTLE_ENDIAN]
||[!A0] STW $Elo,*${CTXB}[9^.LITTLE_ENDIAN]
 ADD $Gctxlo,$Ghi,$Ghi
||[!A0] STW $Fhi,*${CTXA}[10^.LITTLE_ENDIAN]
||[!A0] STW $Flo,*${CTXB}[11^.LITTLE_ENDIAN]
 ADD $Hctxlo,$Hhi,$Hhi
||[!A0] STW $Ghi,*${CTXA}[12^.LITTLE_ENDIAN]
||[!A0] STW $Glo,*${CTXB}[13^.LITTLE_ENDIAN]
;;=====
 branch to outerloop? is taken here

 STW $Hhi,*${CTXA}[14^.LITTLE_ENDIAN]
|| STW $Hlo,*${CTXB}[15^.LITTLE_ENDIAN]
|| MVK -40,B0
 ADD FP,B0,SP   ; destroy circular buffer
|| LDDW *FP[-4],A11:A10
 LDDW *SP[2],A13:A12
|| LDDW *FP[-2],B11:B10
 LDDW *SP[4],B13:B12
|| BNOP RA
 LDW *++SP(40),FP   ; restore frame pointer
 MVK 0,B0
 MVC B0,AMR    ; clear AMR
 NOP 2    ; wait till FP is committed
 .endasmfunc

 .sect ".const:sha_asm"
 .align 128
K512:
 .uword 0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
 .uword 0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0x8189dbbc
 .uword 0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019
 .uword 0x923f82a4,0xaf194f9b, 0xab1c5ed5,0xda6d8118
 .uword 0xd807aa98,0xa3030242, 0x12835b01,0x45706fbe
 .uword 0x243185be,0x4ee4b28c, 0x550c7dc3,0xd5ffb4e2
 .uword 0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696b1
 .uword 0x9bdc06a7,0x25c71235, 0xc19bf174,0xcf692694
 .uword 0xe49b69c1,0x9ef14ad2, 0xefbe4786,0x384f25e3
 .uword 0x0fc19dc6,0x8b8cd5b5,
 0x240ca1cc,0x77ac9c65
 .uword 0x2de92c6f,0x592b0275, 0x4a7484aa,0x6ea6e483
 .uword 0x5cb0a9dc,0xbd41fbd4, 0x76f988da,0x831153b5
 .uword 0x983e5152,0xee66dfab, 0xa831c66d,0x2db43210
```

```
.uword 0xb00327c8,0x98fb213f, 0xbf597fc7,0xbeef0ee4
.uword 0xc6e00bf3,0x3da88fc2, 0xd5a79147,0x930aa725
.uword 0x06ca6351,0xe003826f, 0x14292967,0x0a0e6e70
.uword 0x27b70a85,0x46d22ffc, 0x2e1b2138,0x5c26c926
.uword 0x4d2c6dfc,0x5ac42aed, 0x53380d13,0x9d95b3df
.uword 0x650a7354,0x8baf63de, 0x766a0abb,0x3c77b2a8
.uword 0x81c2c92e,0x47edaee6, 0x92722c85,0x1482353b
.uword 0xa2bfe8a1,0x4cf10364, 0xa81a664b,0xbc423001
.uword 0xc24b8b70,0xd0f89791, 0xc76c51a3,0x0654be30
.uword 0xd192e819,0xd6ef5218, 0xd6990624,0x5565a910
.uword 0xf40e3585,0x5771202a, 0x106aa070,0x32bbd1b8
.uword 0x19a4c116,0xb8d2d0c8, 0x1e376c08,0x5141ab53
.uword 0x2748774c,0xdf8eeb99, 0x34b0bcb5,0xe19b48a8
.uword 0x391c0cb3,0xc5c95a63, 0x4ed8aa4a,0xe3418acb
.uword 0x5b9cca4f,0x7763e373, 0x682e6ff3,0xd6b2b8a3
.uword 0x748f82ee,0x5defb2fc,
0x78a5636f,0x43172f60
.uword 0x84c87814,0xa1f0ab72, 0x8cc70208,0x1a6439ec
.uword 0x90befffa,0x23631e28, 0xa4506ceb,0xde82bde9
.uword 0xbef9a3f7,0xb2c67915, 0xc67178f2,0xe372532b
.uword 0xca273ece,0xea26619c, 0xd186b8c7,0x21c0c207
.uword 0xeada7dd6,0xcde0eb1e, 0xf57d4f7f,0xee6ed178
.uword 0x06f067aa,0x72176fba, 0x0a637dc5,0xa2c898a6
.uword 0x113f9804,0xbef90dae, 0x1b710b35,0x131c471b
.uword 0x28db77f5,0x23047d84, 0x32caab7b,0x40c72493
.uword 0x3c9ebe0a,0x15c9bebc, 0x431d67c4,0x9c100d4c
.uword 0x4cc5d4be,0xcb3e42b6, 0x597f299c,0xfc657e2a
.uword 0x5fcb6fab,0x3ad6faec, 0x6c44198c,0x4a475817
.cstring "SHA512 block transform for C64x+, CRYPTOGAMS by <appro\@openssl.org>"
.align 4
—

print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_ssl.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_add.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh_gen.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_none.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_pk1.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_recp.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/sha_locl.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/m_sha1.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa_key.c
*
/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/lhash/lhash.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/stack/stack.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/m_dss1.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/rpc_des.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cryptlib.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsatest.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_lib.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/e_os.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/buffer/buffer.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/sha.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/ncbc_enc.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa.h

* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/set_key.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/cfb_enc.c
*
 /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/asn1/asn1.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_mul.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/hmac/hmac.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/des_enc.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/ofb64ede.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_shift.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/des_ver.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh_check.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_asm.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/hmac/hmac.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_div.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_x931g.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/util/add_cr.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_prime.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_crpt.c
*
 /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips_enc.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/m_dss.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/asn1/asn1_mac.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/objects/objects.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/cfb64enc.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa_gen.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bio/bio.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_word.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/cfb64ede.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh_key.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/e_des3.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/buffer/buf_str.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/ecb3_enc.c
*
 /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa_ossl.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_gen.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/spr.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/fcrypt_b.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/e_null.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/evp.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/sha1dgst.c
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```
#!/usr/bin/env perl
```

```
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# This module implements support for AES instructions as per PowerISA
# specification version 2.07, first implemented by POWER8 processor.
# The module is endian-agnostic in sense that it supports both big-
# and little-endian cases. Data alignment in parallelizable modes is
# handled with VSX loads and stores, which implies MSR.VSX flag being
# set. It should also be noted that ISA specification doesn't prohibit
# alignment exceptions for these instructions on page boundaries.
# Initially alignment was
 handled in pure AltiVec/VMX way [when data
# is aligned programmatically, which in turn guarantees exception-
# free execution], but it turned to hamper performance when vcipher
# instructions are interleaved. It's reckoned that eventual
# misalignment penalties at page boundaries are in average lower
# than additional overhead in pure AltiVec approach.
#
# May 2016
#
# Add XTS subroutine, 9x on little- and 12x improvement on big-endian
# systems were measured.
#
######################################################################
# Current large-block performance in cycles per byte processed with
# 128-bit key (less is better).
#
#  CBC en-/decrypt CTR XTS
# POWER8[le] 3.96/0.72 0.74 1.1
# POWER8[be] 3.75/0.65 0.66 1.0

$flavour = shift;

if ($flavour =~ /64/) {
 $SIZE_T =8;
 $LRSAVE =2*$SIZE_T;
 $STU ="stdu";
 $POP ="ld";
 $PUSH ="std";
 $UCMP ="cmpld";
 $SHL ="sldi";
} elsif ($flavour =~ /32/) {
 $SIZE_T =4;
```

```
 $LRSAVE =$SIZE_T;
 $STU ="stwu";
 $POP ="lwz";
 $PUSH ="stw";
 $UCMP ="cmplw";
 $SHL ="slwi";
}
 else { die "nonsense $flavour"; }

$LITTLE_ENDIAN = ($flavour=~/le$/) ? $SIZE_T : 0;

$0 =~ m/(.*[\/\\])[^\/\\]+$/; $dir=$1;
( $xlate="${dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="${dir}../../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| $^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=8*$SIZE_T;
$prefix="aes_p8";

$sp="r1";
$vrsave="r12";

#########################################################################
{{{ # Key setup procedures      #
my ($inp,$bits,$out,$ptr,$cnt,$rounds)=map("r$_",(3..8));
my ($zero,$in0,$in1,$key,$rcon,$mask,$tmp)=map("v$_",(0..6));
my ($stage,$outperm,$outmask,$outhead,$outtail)=map("v$_",(7..11));

$code.=<<___;
.machine "any"

.text

.align 7
rcon:
.long 0x01000000, 0x01000000, 0x01000000, 0x01000000 ?rev
.long 0x1b000000, 0x1b000000, 0x1b000000, 0x1b000000 ?rev
.long 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c ?rev
.long 0,0,0,0      ?asis
Lconsts:
 mflr r0
 bcl 20,31,\$+4
 mflr $ptr
 #vvvvv "distance between . and rcon
 addi $ptr,$ptr,-0x48
 mtlr r0
```

```
 blr
 .long 0
 .byte 0,12,0x14,0,0,0,0,0
.asciz "AES for PowerISA 2.07, CRYPTOGAMS by <appro\@openssl.org>"

.globl .${prefix}_set_encrypt_key
.align 5
.${prefix}_set_encrypt_key:
Lset_encrypt_key:
 mflr  r11
 $PUSH  r11,$LRSAVE($sp)

 li  $ptr,-1
 ${UCMP}i $inp,0
 beq-  Lenc_key_abort  # if ($inp==0) return -1;
 ${UCMP}i $out,0
 beq-  Lenc_key_abort  # if ($out==0) return -1;
 li  $ptr,-2
 cmpwi  $bits,128
 blt-  Lenc_key_abort
 cmpwi  $bits,256
 bgt-  Lenc_key_abort
 andi.  r0,$bits,0x3f
 bne-  Lenc_key_abort

 lis  r0,0xfff0
 mfspr  $vrsave,256
 mtspr  256,r0

 bl  Lconsts
 mtlr  r11

 neg  r9,$inp
 lvx  $in0,0,$inp
 addi  $inp,$inp,15  # 15 is not typo
 lvsr  $key,0,r9  # borrow $key
 li  r8,0x20
 cmpwi  $bits,192
 lvx  $in1,0,$inp
 le?vspltisb $mask,0x0f  # borrow $mask
 lvx  $rcon,0,$ptr
 le?vxor  $key,$key,$mask  # adjust for byte swap
 lvx  $mask,r8,$ptr
 addi  $ptr,$ptr,0x10
 vperm  $in0,$in0,$in1,$key #
 align [and byte swap in LE]
 li  $cnt,8
 vxor  $zero,$zero,$zero
```

```
 mtctr  $cnt

 ?lvsr  $outperm,0,$out
 vspltisb $outmask,-1
 lvx  $outhead,0,$out
 ?vperm  $outmask,$zero,$outmask,$outperm

 blt  Loop128
 addi  $inp,$inp,8
 beq  L192
 addi  $inp,$inp,8
 b  L256

.align 4
Loop128:
 vperm  $key,$in0,$in0,$mask # rotate-n-splat
 vsldoi  $tmp,$zero,$in0,12 # >>32
  vperm  $outtail,$in0,$in0,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
 vcipherlast $key,$key,$rcon
  stvx  $stage,0,$out
  addi  $out,$out,16

 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
  vadduwm $rcon,$rcon,$rcon
 vxor  $in0,$in0,$key
 bdnz  Loop128

 lvx  $rcon,0,$ptr  # last two round keys

 vperm  $key,$in0,$in0,$mask # rotate-n-splat
 vsldoi  $tmp,$zero,$in0,12 # >>32
  vperm  $outtail,$in0,$in0,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
 vcipherlast $key,$key,$rcon

 stvx  $stage,0,$out
  addi  $out,$out,16

 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
```

```
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
  vadduwm $rcon,$rcon,$rcon
 vxor  $in0,$in0,$key

 vperm  $key,$in0,$in0,$mask # rotate-n-splat
 vsldoi  $tmp,$zero,$in0,12 # >>32
  vperm  $outtail,$in0,$in0,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
 vcipherlast $key,$key,$rcon
  stvx  $stage,0,$out
  addi  $out,$out,16

 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
 vxor  $in0,$in0,$key
  vperm  $outtail,$in0,$in0,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
  stvx  $stage,0,$out

 addi  $inp,$out,15  # 15 is not typo
 addi  $out,$out,0x50

 li  $rounds,10
 b  Ldone

.align 4
L192:
 lvx  $tmp,0,$inp
 li  $cnt,4
  vperm  $outtail,$in0,$in0,$outperm #
 rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
  stvx  $stage,0,$out
  addi  $out,$out,16
 vperm  $in1,$in1,$tmp,$key # align [and byte swap in LE]
 vspltisb $key,8   # borrow $key
 mtctr  $cnt
 vsububm  $mask,$mask,$key # adjust the mask

Loop192:
 vperm  $key,$in1,$in1,$mask # roate-n-splat
```

```
vsldoi  $tmp,$zero,$in0,12 # >>32
vcipherlast $key,$key,$rcon

vxor  $in0,$in0,$tmp
vsldoi  $tmp,$zero,$tmp,12 # >>32
vxor  $in0,$in0,$tmp
vsldoi  $tmp,$zero,$tmp,12 # >>32
vxor  $in0,$in0,$tmp

 vsldoi  $stage,$zero,$in1,8
vspltw  $tmp,$in0,3
vxor  $tmp,$tmp,$in1
vsldoi  $in1,$zero,$in1,12 # >>32
 vadduwm $rcon,$rcon,$rcon
vxor  $in1,$in1,$tmp
vxor  $in0,$in0,$key
vxor  $in1,$in1,$key
 vsldoi  $stage,$stage,$in0,8

vperm  $key,$in1,$in1,$mask # rotate-n-splat
vsldoi  $tmp,$zero,$in0,12 # >>32
 vperm  $outtail,$stage,$stage,$outperm # rotate
 vsel  $stage,$outhead,$outtail,$outmask
 vmr  $outhead,$outtail
vcipherlast $key,$key,$rcon
 stvx  $stage,0,$out

addi  $out,$out,16

 vsldoi  $stage,$in0,$in1,8
vxor  $in0,$in0,$tmp
vsldoi  $tmp,$zero,$tmp,12 # >>32
 vperm  $outtail,$stage,$stage,$outperm # rotate
 vsel  $stage,$outhead,$outtail,$outmask
 vmr  $outhead,$outtail
vxor  $in0,$in0,$tmp
vsldoi  $tmp,$zero,$tmp,12 # >>32
vxor  $in0,$in0,$tmp
 stvx  $stage,0,$out
 addi  $out,$out,16

vspltw  $tmp,$in0,3
vxor  $tmp,$tmp,$in1
vsldoi  $in1,$zero,$in1,12 # >>32
 vadduwm $rcon,$rcon,$rcon
vxor  $in1,$in1,$tmp
vxor  $in0,$in0,$key
vxor  $in1,$in1,$key
```

```
 vperm  $outtail,$in0,$in0,$outperm # rotate
 vsel  $stage,$outhead,$outtail,$outmask
 vmr  $outhead,$outtail
 stvx  $stage,0,$out
 addi  $inp,$out,15  # 15 is not typo
 addi  $out,$out,16
bdnz  Loop192

li  $rounds,12
addi  $out,$out,0x20
b  Ldone

.align 4
L256:
 lvx  $tmp,0,$inp
 li  $cnt,7
 li  $rounds,14
 vperm  $outtail,$in0,$in0,$outperm # rotate
 vsel  $stage,$outhead,$outtail,$outmask
 vmr  $outhead,$outtail
 stvx  $stage,0,$out
 addi  $out,$out,16
vperm  $in1,$in1,$tmp,$key #
align [and byte swap in LE]
mtctr  $cnt

Loop256:
 vperm  $key,$in1,$in1,$mask # rotate-n-splat
 vsldoi  $tmp,$zero,$in0,12 # >>32
 vperm  $outtail,$in1,$in1,$outperm # rotate
 vsel  $stage,$outhead,$outtail,$outmask
 vmr  $outhead,$outtail
 vcipherlast $key,$key,$rcon
 stvx  $stage,0,$out
 addi  $out,$out,16

 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
 vadduwm $rcon,$rcon,$rcon
 vxor  $in0,$in0,$key
 vperm  $outtail,$in0,$in0,$outperm # rotate
 vsel  $stage,$outhead,$outtail,$outmask
 vmr  $outhead,$outtail
 stvx  $stage,0,$out
 addi  $inp,$out,15  # 15 is not typo
```

```
 addi  $out,$out,16
 bdz  Ldone

 vspltw  $key,$in0,3  # just splat
 vsldoi  $tmp,$zero,$in1,12 # >>32
 vsbox  $key,$key

 vxor  $in1,$in1,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in1,$in1,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in1,$in1,$tmp

 vxor  $in1,$in1,$key
 b  Loop256

.align 4
Ldone:
 lvx  $in1,0,$inp  #
 redundant in aligned case
 vsel  $in1,$outhead,$in1,$outmask
 stvx  $in1,0,$inp
 li  $ptr,0
 mtspr  256,$vrsave
 stw  $rounds,0($out)

Lenc_key_abort:
 mr  r3,$ptr
 blr
 .long  0
 .byte  0,12,0x14,1,0,0,3,0
 .long  0
.size .${prefix}_set_encrypt_key,.-.${prefix}_set_encrypt_key

.globl .${prefix}_set_decrypt_key
.align 5
.${prefix}_set_decrypt_key:
 $STU  $sp,-$FRAME($sp)
 mflr  r10
 $PUSH  r10,$FRAME+$LRSAVE($sp)
 bl  Lset_encrypt_key
 mtlr  r10

 cmpwi  r3,0
 bne-  Ldec_key_abort

 slwi  $cnt,$rounds,4
 subi  $inp,$out,240  # first round key
```

```
 srwi  $rounds,$rounds,1
 add  $out,$inp,$cnt  # last round key
 mtctr  $rounds

Ldeckey:
 lwz  r0, 0($inp)
 lwz  r6, 4($inp)
 lwz  r7, 8($inp)
 lwz  r8, 12($inp)
 addi  $inp,$inp,16
 lwz  r9, 0($out)
 lwz  r10,4($out)
 lwz  r11,8($out)
 lwz  r12,12($out)
 stw  r0, 0($out)
 stw  r6, 4($out)
 stw  r7, 8($out)
 stw  r8, 12($out)
 subi  $out,$out,16
 stw  r9, -16($inp)
 stw  r10,-12($inp)
 stw  r11,-8($inp)
 stw  r12,-4($inp)
 bdnz  Ldeckey

 xor  r3,r3,r3  #
 return value
Ldec_key_abort:
 addi  $sp,$sp,$FRAME
 blr
 .long  0
 .byte  0,12,4,1,0x80,0,3,0
 .long  0
.size .${prefix}_set_decrypt_key,.-.${prefix}_set_decrypt_key
___
}}}
#########################################################################
{{{ # Single block en- and decrypt procedures   #
sub gen_block () {
my $dir = shift;
my $n   = $dir eq "de" ? "n" : "";
my ($inp,$out,$key,$rounds,$idx)=map("r$_",(3..7));

$code.=<<___;
.globl .${prefix}_${dir}crypt
.align 5
.${prefix}_${dir}crypt:
 lwz  $rounds,240($key)
```

```
lis  r0,0xfc00
mfspr  $vrsave,256
li  $idx,15   # 15 is not typo
mtspr  256,r0

lvx  v0,0,$inp
neg  r11,$out
lvx  v1,$idx,$inp
lvsl  v2,0,$inp  # inpperm
le?vspltisb v4,0x0f
?lvsl  v3,0,r11  # outperm
le?vxor  v2,v2,v4
li  $idx,16
vperm  v0,v0,v1,v2  # align [and byte swap in LE]
lvx  v1,0,$key
?lvsl  v5,0,$key  # keyperm
srwi  $rounds,$rounds,1
lvx  v2,$idx,$key
addi  $idx,$idx,16
subi  $rounds,$rounds,1
?vperm  v1,v1,v2,v5  #
align round key

vxor  v0,v0,v1
lvx  v1,$idx,$key
addi  $idx,$idx,16
mtctr  $rounds

Loop_${dir}c:
?vperm  v2,v2,v1,v5
v${n}cipher v0,v0,v2
lvx  v2,$idx,$key
addi  $idx,$idx,16
?vperm  v1,v1,v2,v5
v${n}cipher v0,v0,v1
lvx  v1,$idx,$key
addi  $idx,$idx,16
bdnz  Loop_${dir}c

?vperm  v2,v2,v1,v5
v${n}cipher v0,v0,v2
lvx  v2,$idx,$key
?vperm  v1,v1,v2,v5
v${n}cipherlast v0,v0,v1

vspltisb v2,-1
vxor  v1,v1,v1
li  $idx,15   # 15 is not typo
```

```
 ?vperm  v2,v1,v2,v3  # outmask
 le?vxor  v3,v3,v4
 lvx  v1,0,$out  # outhead
 vperm  v0,v0,v0,v3  # rotate [and byte swap in LE]
 vsel  v1,v1,v0,v2
 lvx  v4,$idx,$out
 stvx  v1,0,$out
 vsel  v0,v0,v4,v2
 stvx  v0,$idx,$out

 mtspr  256,$vrsave
 blr
 .long  0
 .byte  0,12,0x14,0,0,0,3,0
 .long  0
.size .${prefix}_${dir}crypt,.-.${prefix}_${dir}crypt
___
}
&gen_block("en");
&gen_block("de");
}}}
######################################################################
{{{ # CBC en- and decrypt procedures    #
my
 ($inp,$out,$len,$key,$ivp,$enc,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)=  map("v$_",(0..3));
my ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm)=
     map("v$_",(4..10));
$code.=<<___;
.globl .${prefix}_cbc_encrypt
.align 5
.${prefix}_cbc_encrypt:
 ${UCMP}i $len,16
 bltlr-

 cmpwi  $enc,0   # test direction
 lis  r0,0xffe0
 mfspr  $vrsave,256
 mtspr  256,r0

 li  $idx,15
 vxor  $rndkey0,$rndkey0,$rndkey0
 le?vspltisb $tmp,0x0f

 lvx  $ivec,0,$ivp  # load [unaligned] iv
 lvsl  $inpperm,0,$ivp
 lvx  $inptail,$idx,$ivp
 le?vxor  $inpperm,$inpperm,$tmp
```

```
 vperm  $ivec,$ivec,$inptail,$inpperm

 neg  r11,$inp
 ?lvsl  $keyperm,0,$key  # prepare for unaligned key
 lwz  $rounds,240($key)

 lvsr  $inpperm,0,r11  # prepare for unaligned load
 lvx  $inptail,0,$inp
 addi  $inp,$inp,15  # 15 is not typo
 le?vxor  $inpperm,$inpperm,$tmp

 ?lvsr  $outperm,0,$out  # prepare for unaligned store
 vspltisb $outmask,-1
 lvx  $outhead,0,$out
 ?vperm  $outmask,$rndkey0,$outmask,$outperm
 le?vxor  $outperm,$outperm,$tmp

 srwi  $rounds,$rounds,1
 li  $idx,16
 subi  $rounds,$rounds,1
 beq  Lcbc_dec

Lcbc_enc:
 vmr  $inout,$inptail
 lvx  $inptail,0,$inp
 addi  $inp,$inp,16
 mtctr  $rounds
 subi  $len,$len,16  #
 len-=16

 lvx  $rndkey0,0,$key
  vperm  $inout,$inout,$inptail,$inpperm
 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key
 addi  $idx,$idx,16
 vxor  $inout,$inout,$ivec

Loop_cbc_enc:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipher  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key
```

```
 addi  $idx,$idx,16
 bdnz  Loop_cbc_enc

 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key
 li  $idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipherlast $ivec,$inout,$rndkey0
 ${UCMP}i $len,16

 vperm  $tmp,$ivec,$ivec,$outperm
 vsel  $inout,$outhead,$tmp,$outmask
 vmr  $outhead,$tmp
 stvx  $inout,0,$out
 addi  $out,$out,16
 bge  Lcbc_enc

 b  Lcbc_done

.align 4
Lcbc_dec:
 ${UCMP}i $len,128
 bge  _aesp8_cbc_decrypt8x
 vmr  $tmp,$inptail
 lvx  $inptail,0,$inp
 addi  $inp,$inp,16
 mtctr  $rounds
 subi  $len,$len,16  #
 len-=16

 lvx  $rndkey0,0,$key
  vperm  $tmp,$tmp,$inptail,$inpperm
 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$tmp,$rndkey0
 lvx  $rndkey0,$idx,$key
 addi  $idx,$idx,16

Loop_cbc_dec:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vncipher $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vncipher $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key
```

```
addi  $idx,$idx,16
bdnz  Loop_cbc_dec

?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx  $rndkey1,$idx,$key
li  $idx,16
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipherlast $inout,$inout,$rndkey0
${UCMP}i $len,16

vxor  $inout,$inout,$ivec
vmr  $ivec,$tmp
vperm  $tmp,$inout,$inout,$outperm
vsel  $inout,$outhead,$tmp,$outmask
vmr  $outhead,$tmp
stvx  $inout,0,$out
addi  $out,$out,16
bge  Lcbc_dec

Lcbc_done:
addi  $out,$out,-1
lvx  $inout,0,$out  #
redundant in aligned case
vsel  $inout,$outhead,$inout,$outmask
stvx  $inout,0,$out

neg  $enc,$ivp  # write [unaligned] iv
li  $idx,15   # 15 is not typo
vxor  $rndkey0,$rndkey0,$rndkey0
vspltisb $outmask,-1
le?vspltisb $tmp,0x0f
?lvsl  $outperm,0,$enc
?vperm  $outmask,$rndkey0,$outmask,$outperm
le?vxor  $outperm,$outperm,$tmp
lvx  $outhead,0,$ivp
vperm  $ivec,$ivec,$ivec,$outperm
vsel  $inout,$outhead,$ivec,$outmask
lvx  $inptail,$idx,$ivp
stvx  $inout,0,$ivp
vsel  $inout,$ivec,$inptail,$outmask
stvx  $inout,$idx,$ivp

mtspr  256,$vrsave
blr
.long  0
.byte  0,12,0x14,0,0,0,6,0
.long  0
```

```
___
################################################################################
{{ #
 Optimized CBC decrypt procedure    #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
   $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10..13));
my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(14..21));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
   # v26-v31 last 6 round keys
my ($tmp,$keyperm)=($in3,$in4); # aliases with "caller", redundant assignment

$code.=<<___;
.align 5
_aesp8_cbc_decrypt8x:
 $STU  $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
 li  r10,`$FRAME+8*16+15`
 li  r11,`$FRAME+8*16+31`
 stvx  v20,r10,$sp  # ABI says so
 addi  r10,r10,32
 stvx  v21,r11,$sp
 addi  r11,r11,32
 stvx  v22,r10,$sp
 addi  r10,r10,32
 stvx  v23,r11,$sp
 addi  r11,r11,32
 stvx  v24,r10,$sp
 addi  r10,r10,32
 stvx  v25,r11,$sp
 addi  r11,r11,32
 stvx  v26,r10,$sp
 addi  r10,r10,32
 stvx  v27,r11,$sp
 addi  r11,r11,32
 stvx  v28,r10,$sp
 addi  r10,r10,32
 stvx  v29,r11,$sp
 addi  r11,r11,32
 stvx  v30,r10,$sp
 stvx  v31,r11,$sp
 li  r0,-1
 stw  $vrsave,`$FRAME+21*16-4`($sp) #
 save vrsave
 li  $x10,0x10
 $PUSH  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 li  $x20,0x20
 $PUSH  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
```

```
 li  $x30,0x30
 $PUSH  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 li  $x40,0x40
 $PUSH  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 li  $x50,0x50
 $PUSH  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 li  $x60,0x60
 $PUSH  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 li  $x70,0x70
 mtspr  256,r0

 subi  $rounds,$rounds,3 # -4 in total
 subi  $len,$len,128  # bias

 lvx  $rndkey0,$x00,$key # load key schedule
 lvx  v30,$x10,$key
 addi  $key,$key,0x20
 lvx  v31,$x00,$key
 ?vperm  $rndkey0,$rndkey0,v30,$keyperm
 addi  $key_,$sp,$FRAME+15
 mtctr  $rounds

Load_cbc_dec_key:
 ?vperm  v24,v30,v31,$keyperm
 lvx  v30,$x10,$key
 addi  $key,$key,0x20
 stvx  v24,$x00,$key_  # off-load round[1]
 ?vperm  v25,v31,v30,$keyperm
 lvx  v31,$x00,$key
 stvx  v25,$x10,$key_  # off-load round[2]
 addi  $key_,$key_,0x20
 bdnz  Load_cbc_dec_key

 lvx  v26,$x10,$key
 ?vperm  v24,v30,v31,$keyperm
 lvx  v27,$x20,$key
 stvx  v24,$x00,$key_  #
 off-load round[3]
 ?vperm  v25,v31,v26,$keyperm
 lvx  v28,$x30,$key
 stvx  v25,$x10,$key_  # off-load round[4]
 addi  $key_,$sp,$FRAME+15 # rewind $key_
 ?vperm  v26,v26,v27,$keyperm
 lvx  v29,$x40,$key
 ?vperm  v27,v27,v28,$keyperm
 lvx  v30,$x50,$key
 ?vperm  v28,v28,v29,$keyperm
 lvx  v31,$x60,$key
```

```
 ?vperm  v29,v29,v30,$keyperm
 lvx  $out0,$x70,$key  # borrow $out0
 ?vperm  v30,v30,v31,$keyperm
 lvx  v24,$x00,$key_  # pre-load round[1]
 ?vperm  v31,v31,$out0,$keyperm
 lvx  v25,$x10,$key_  # pre-load round[2]

 #lvx  $inptail,0,$inp  # "caller" already did this
 #addi  $inp,$inp,15  # 15 is not typo
 subi  $inp,$inp,15  # undo "caller"

  le?li  $idx,8
 lvx_u  $in0,$x00,$inp  # load first 8 "words"
  le?lvsl $inpperm,0,$idx
  le?vspltisb $tmp,0x0f
 lvx_u  $in1,$x10,$inp
  le?vxor $inpperm,$inpperm,$tmp # transform for lvx_u/stvx_u
 lvx_u  $in2,$x20,$inp

 le?vperm $in0,$in0,$in0,$inpperm
 lvx_u  $in3,$x30,$inp
  le?vperm $in1,$in1,$in1,$inpperm
 lvx_u  $in4,$x40,$inp
  le?vperm $in2,$in2,$in2,$inpperm
 vxor  $out0,$in0,$rndkey0
 lvx_u  $in5,$x50,$inp
  le?vperm $in3,$in3,$in3,$inpperm
 vxor  $out1,$in1,$rndkey0
 lvx_u  $in6,$x60,$inp
  le?vperm $in4,$in4,$in4,$inpperm
 vxor  $out2,$in2,$rndkey0
 lvx_u  $in7,$x70,$inp
 addi  $inp,$inp,0x80
  le?vperm $in5,$in5,$in5,$inpperm
 vxor  $out3,$in3,$rndkey0
  le?vperm $in6,$in6,$in6,$inpperm
 vxor  $out4,$in4,$rndkey0
  le?vperm $in7,$in7,$in7,$inpperm
 vxor  $out5,$in5,$rndkey0
 vxor  $out6,$in6,$rndkey0
 vxor  $out7,$in7,$rndkey0

 mtctr  $rounds
 b  Loop_cbc_dec8x
.align 5
Loop_cbc_dec8x:
 vncipher $out0,$out0,v24
 vncipher $out1,$out1,v24
```

```
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24
lvx  v24,$x20,$key_  # round[3]
addi  $key_,$key_,0x20

vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25
lvx  v25,$x10,$key_  #
round[4]
bdnz  Loop_cbc_dec8x

subic  $len,$len,128  # $len-=128
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24

subfe.  r0,r0,r0  # borrow?-1:0
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25

and  r0,r0,$len
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26
```

```
vncipher $out6,$out6,v26
vncipher $out7,$out7,v26

add  $inp,$inp,r0  # $inp is adjusted in such
    # way
that at exit from the
    # loop inX-in7 are loaded
    # with last "words"
vncipher $out0,$out0,v27
vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27
vncipher $out6,$out6,v27
vncipher $out7,$out7,v27

addi  $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
vncipher $out6,$out6,v28
vncipher $out7,$out7,v28
lvx  v24,$x00,$key_  # re-pre-load round[1]

vncipher $out0,$out0,v29
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
vncipher $out6,$out6,v29
vncipher $out7,$out7,v29
lvx  v25,$x10,$key_  # re-pre-load round[2]

vncipher $out0,$out0,v30
 vxor  $ivec,$ivec,v31  # xor with last round key
vncipher $out1,$out1,v30
 vxor  $in0,$in0,v31
vncipher $out2,$out2,v30
 vxor  $in1,$in1,v31
vncipher $out3,$out3,v30

vxor  $in2,$in2,v31
vncipher $out4,$out4,v30
```

```
 vxor  $in3,$in3,v31
vncipher $out5,$out5,v30
 vxor  $in4,$in4,v31
vncipher $out6,$out6,v30
 vxor  $in5,$in5,v31
vncipher $out7,$out7,v30
 vxor  $in6,$in6,v31

vncipherlast $out0,$out0,$ivec
vncipherlast $out1,$out1,$in0
 lvx_u  $in0,$x00,$inp  # load next input block
vncipherlast $out2,$out2,$in1
 lvx_u  $in1,$x10,$inp
vncipherlast $out3,$out3,$in2
 le?vperm $in0,$in0,$in0,$inpperm
 lvx_u  $in2,$x20,$inp
vncipherlast $out4,$out4,$in3
 le?vperm $in1,$in1,$in1,$inpperm
 lvx_u  $in3,$x30,$inp
vncipherlast $out5,$out5,$in4
 le?vperm $in2,$in2,$in2,$inpperm
 lvx_u  $in4,$x40,$inp
vncipherlast $out6,$out6,$in5
 le?vperm $in3,$in3,$in3,$inpperm
 lvx_u  $in5,$x50,$inp
vncipherlast $out7,$out7,$in6
 le?vperm $in4,$in4,$in4,$inpperm
 lvx_u  $in6,$x60,$inp
vmr  $ivec,$in7
 le?vperm $in5,$in5,$in5,$inpperm
 lvx_u  $in7,$x70,$inp
 addi  $inp,$inp,0x80

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u  $out0,$x00,$out

le?vperm $in6,$in6,$in6,$inpperm
 vxor  $out0,$in0,$rndkey0
le?vperm $out2,$out2,$out2,$inpperm
stvx_u  $out1,$x10,$out
 le?vperm $in7,$in7,$in7,$inpperm
 vxor  $out1,$in1,$rndkey0
le?vperm $out3,$out3,$out3,$inpperm
stvx_u  $out2,$x20,$out
 vxor  $out2,$in2,$rndkey0
le?vperm $out4,$out4,$out4,$inpperm
stvx_u  $out3,$x30,$out
```

```
 vxor  $out3,$in3,$rndkey0
le?vperm $out5,$out5,$out5,$inpperm
stvx_u  $out4,$x40,$out
 vxor  $out4,$in4,$rndkey0
le?vperm $out6,$out6,$out6,$inpperm
stvx_u  $out5,$x50,$out
 vxor  $out5,$in5,$rndkey0
le?vperm $out7,$out7,$out7,$inpperm
stvx_u  $out6,$x60,$out
 vxor  $out6,$in6,$rndkey0
stvx_u  $out7,$x70,$out
addi  $out,$out,0x80
 vxor  $out7,$in7,$rndkey0

mtctr  $rounds
beq  Loop_cbc_dec8x  # did $len-=128 borrow?

addic.  $len,$len,128
beq  Lcbc_dec8x_done
nop
nop

Loop_cbc_dec8x_tail:    # up to 7 "words" tail...
 vncipher $out1,$out1,v24
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
 vncipher $out4,$out4,v24
 vncipher $out5,$out5,v24
 vncipher $out6,$out6,v24
 vncipher $out7,$out7,v24
 lvx  v24,$x20,$key_  #
 round[3]
 addi  $key_,$key_,0x20

 vncipher $out1,$out1,v25
 vncipher $out2,$out2,v25
 vncipher $out3,$out3,v25
 vncipher $out4,$out4,v25
 vncipher $out5,$out5,v25
 vncipher $out6,$out6,v25
 vncipher $out7,$out7,v25
 lvx  v25,$x10,$key_  # round[4]
 bdnz  Loop_cbc_dec8x_tail

 vncipher $out1,$out1,v24
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
 vncipher $out4,$out4,v24
```

```
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24

vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25

vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26
vncipher $out6,$out6,v26
vncipher $out7,$out7,v26

vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27
vncipher $out6,$out6,v27
vncipher $out7,$out7,v27

vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
vncipher $out6,$out6,v28
vncipher $out7,$out7,v28

vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
vncipher $out6,$out6,v29
vncipher $out7,$out7,v29

vncipher $out1,$out1,v30

vxor  $ivec,$ivec,v31  # last round key
vncipher $out2,$out2,v30
```

```
 vxor  $in1,$in1,v31
vncipher $out3,$out3,v30
 vxor  $in2,$in2,v31
vncipher $out4,$out4,v30
 vxor  $in3,$in3,v31
vncipher $out5,$out5,v30
 vxor  $in4,$in4,v31
vncipher $out6,$out6,v30
 vxor  $in5,$in5,v31
vncipher $out7,$out7,v30
 vxor  $in6,$in6,v31

 cmplwi  $len,32   # switch($len)
 blt  Lcbc_dec8x_one
 nop
 beq  Lcbc_dec8x_two
 cmplwi  $len,64
 blt  Lcbc_dec8x_three
 nop
 beq  Lcbc_dec8x_four
 cmplwi  $len,96
 blt  Lcbc_dec8x_five
 nop
 beq  Lcbc_dec8x_six

Lcbc_dec8x_seven:
 vncipherlast $out1,$out1,$ivec
 vncipherlast $out2,$out2,$in1
 vncipherlast $out3,$out3,$in2
 vncipherlast $out4,$out4,$in3
 vncipherlast $out5,$out5,$in4
 vncipherlast $out6,$out6,$in5
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out1,$out1,$out1,$inpperm
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x00,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x10,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x20,$out
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x30,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x40,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x50,$out
```

```
 stvx_u  $out7,$x60,$out
 addi  $out,$out,0x70
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_six:
 vncipherlast $out2,$out2,$ivec
 vncipherlast $out3,$out3,$in2
 vncipherlast $out4,$out4,$in3
 vncipherlast $out5,$out5,$in4
 vncipherlast $out6,$out6,$in5
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out2,$out2,$out2,$inpperm
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x00,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x10,$out
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x20,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x30,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x40,$out
 stvx_u  $out7,$x50,$out
 addi  $out,$out,0x60
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_five:
 vncipherlast $out3,$out3,$ivec
 vncipherlast $out4,$out4,$in3
 vncipherlast $out5,$out5,$in4
 vncipherlast $out6,$out6,$in5
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out3,$out3,$out3,$inpperm
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x00,$out
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x10,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x20,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x30,$out
 stvx_u  $out7,$x40,$out
```

```
 addi  $out,$out,0x50
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_four:
 vncipherlast $out4,$out4,$ivec
 vncipherlast $out5,$out5,$in4
 vncipherlast $out6,$out6,$in5
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out4,$out4,$out4,$inpperm
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x00,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x10,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x20,$out
 stvx_u  $out7,$x30,$out
 addi  $out,$out,0x40
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_three:
 vncipherlast $out5,$out5,$ivec
 vncipherlast $out6,$out6,$in5
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out5,$out5,$out5,$inpperm
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x00,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x10,$out
 stvx_u  $out7,$x20,$out
 addi  $out,$out,0x30
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_two:
 vncipherlast $out6,$out6,$ivec
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out6,$out6,$out6,$inpperm
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x00,$out
 stvx_u  $out7,$x10,$out
```

```
 addi  $out,$out,0x20
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_one:
 vncipherlast $out7,$out7,$ivec
 vmr  $ivec,$in7

 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out7,0,$out
 addi  $out,$out,0x10

Lcbc_dec8x_done:
 le?vperm $ivec,$ivec,$ivec,$inpperm
 stvx_u  $ivec,0,$ivp  #
 write [unaligned] iv

 li  r10,`$FRAME+15`
 li  r11,`$FRAME+31`
 stvx  $inpperm,r10,$sp # wipe copies of round keys
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32
 stvx  $inpperm,r10,$sp
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32
 stvx  $inpperm,r10,$sp
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32
 stvx  $inpperm,r10,$sp
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32

 mtspr  256,$vrsave
 lvx  v20,r10,$sp  # ABI says so
 addi  r10,r10,32
 lvx  v21,r11,$sp
 addi  r11,r11,32
 lvx  v22,r10,$sp
 addi  r10,r10,32
 lvx  v23,r11,$sp
 addi  r11,r11,32
 lvx  v24,r10,$sp
 addi  r10,r10,32
 lvx  v25,r11,$sp
```

```
 addi  r11,r11,32
 lvx  v26,r10,$sp
 addi  r10,r10,32
 lvx  v27,r11,$sp
 addi  r11,r11,32
 lvx  v28,r10,$sp
 addi  r10,r10,32
 lvx  v29,r11,$sp
 addi  r11,r11,32
 lvx  v30,r10,$sp
 lvx  v31,r11,$sp
 $POP  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 $POP  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 $POP  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 $POP  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 $POP  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 $POP  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 addi  $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
 blr
 .long  0
 .byte  0,12,0x04,0,0x80,6,6,0
 .long  0
.size .${prefix}_cbc_encrypt,.-.${prefix}_cbc_encrypt
___
}} }}}

########################################################################
{{{ #
 CTR procedure[s]      #
my ($inp,$out,$len,$key,$ivp,$x10,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)=  map("v$_",(0..3));
my ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm,$one)=
     map("v$_",(4..11));
my $dat=$tmp;

$code.=<<___;
.globl .${prefix}_ctr32_encrypt_blocks
.align 5
.${prefix}_ctr32_encrypt_blocks:
 ${UCMP}i $len,1
 bltlr-

 lis  r0,0xfff0
 mfspr  $vrsave,256
 mtspr  256,r0

 li  $idx,15
 vxor  $rndkey0,$rndkey0,$rndkey0
```

```
le?vspltisb $tmp,0x0f

lvx  $ivec,0,$ivp  #
load [unaligned] iv
lvsl  $inpperm,0,$ivp
lvx  $inptail,$idx,$ivp
 vspltisb $one,1
le?vxor  $inpperm,$inpperm,$tmp
vperm  $ivec,$ivec,$inptail,$inpperm
 vsldoi  $one,$rndkey0,$one,1

neg  r11,$inp
?lvsl  $keyperm,0,$key  # prepare for unaligned key
lwz  $rounds,240($key)

lvsr  $inpperm,0,r11  # prepare for unaligned load
lvx  $inptail,0,$inp
addi  $inp,$inp,15  # 15 is not typo
le?vxor  $inpperm,$inpperm,$tmp

srwi  $rounds,$rounds,1
li  $idx,16
subi  $rounds,$rounds,1

${UCMP}i $len,8
bge  _aesp8_ctr32_encrypt8x

?lvsr  $outperm,0,$out  # prepare for unaligned store
vspltisb $outmask,-1
lvx  $outhead,0,$out
?vperm  $outmask,$rndkey0,$outmask,$outperm
le?vxor  $outperm,$outperm,$tmp

lvx  $rndkey0,0,$key
mtctr  $rounds
lvx  $rndkey1,$idx,$key
addi  $idx,$idx,16
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor  $inout,$ivec,$rndkey0
lvx  $rndkey0,$idx,$key
addi  $idx,$idx,16
b  Loop_ctr32_enc

.align 5
Loop_ctr32_enc:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key
```

```
addi  $idx,$idx,16
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher  $inout,$inout,$rndkey0
lvx  $rndkey0,$idx,$key
addi  $idx,$idx,16
bdnz  Loop_ctr32_enc

vadduwm  $ivec,$ivec,$one

vmr  $dat,$inptail
 lvx  $inptail,0,$inp
 addi  $inp,$inp,16
 subic.  $len,$len,1  # blocks--

?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher  $inout,$inout,$rndkey1
lvx  $rndkey1,$idx,$key
 vperm  $dat,$dat,$inptail,$inpperm
 li  $idx,16
?vperm  $rndkey1,$rndkey0,$rndkey1,$keyperm
 lvx  $rndkey0,0,$key
vxor  $dat,$dat,$rndkey1 # last round key
vcipherlast $inout,$inout,$dat

 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
vperm  $inout,$inout,$inout,$outperm
vsel  $dat,$outhead,$inout,$outmask

mtctr  $rounds
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vmr  $outhead,$inout
 vxor  $inout,$ivec,$rndkey0
 lvx  $rndkey0,$idx,$key
 addi  $idx,$idx,16
stvx  $dat,0,$out
addi  $out,$out,16
bne  Loop_ctr32_enc

addi  $out,$out,-1
lvx  $inout,0,$out  # redundant in aligned case
vsel  $inout,$outhead,$inout,$outmask
stvx  $inout,0,$out

mtspr  256,$vrsave
blr
.long  0
.byte  0,12,0x14,0,0,0,6,0
```

```
 .long  0
___
################################################################################
{{ # Optimized CTR procedure     #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
   $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10,12..14));
my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(15..22));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
   # v26-v31 last 6 round keys
my ($tmp,$keyperm)=($in3,$in4); # aliases with "caller", redundant
 assignment
my ($two,$three,$four)=($outhead,$outperm,$outmask);

$code.=<<___;
.align 5
_aesp8_ctr32_encrypt8x:
 $STU  $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
 li  r10,`$FRAME+8*16+15`
 li  r11,`$FRAME+8*16+31`
 stvx  v20,r10,$sp  # ABI says so
 addi  r10,r10,32
 stvx  v21,r11,$sp
 addi  r11,r11,32
 stvx  v22,r10,$sp
 addi  r10,r10,32
 stvx  v23,r11,$sp
 addi  r11,r11,32
 stvx  v24,r10,$sp
 addi  r10,r10,32
 stvx  v25,r11,$sp
 addi  r11,r11,32
 stvx  v26,r10,$sp
 addi  r10,r10,32
 stvx  v27,r11,$sp
 addi  r11,r11,32
 stvx  v28,r10,$sp
 addi  r10,r10,32
 stvx  v29,r11,$sp
 addi  r11,r11,32
 stvx  v30,r10,$sp
 stvx  v31,r11,$sp
 li  r0,-1
 stw  $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
 li  $x10,0x10
 $PUSH  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 li  $x20,0x20
```

```
$PUSH  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li  $x30,0x30
$PUSH  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li  $x40,0x40
$PUSH  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li  $x50,0x50
$PUSH  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li  $x60,0x60
$PUSH  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li  $x70,0x70
mtspr  256,r0

subi  $rounds,$rounds,3 #
-4 in total

lvx  $rndkey0,$x00,$key # load key schedule
lvx  v30,$x10,$key
addi  $key,$key,0x20
lvx  v31,$x00,$key
?vperm  $rndkey0,$rndkey0,v30,$keyperm
addi  $key_,$sp,$FRAME+15
mtctr  $rounds

Load_ctr32_enc_key:
?vperm  v24,v30,v31,$keyperm
lvx  v30,$x10,$key
addi  $key,$key,0x20
stvx  v24,$x00,$key_  # off-load round[1]
?vperm  v25,v31,v30,$keyperm
lvx  v31,$x00,$key
stvx  v25,$x10,$key_  # off-load round[2]
addi  $key_,$key_,0x20
bdnz  Load_ctr32_enc_key

lvx  v26,$x10,$key
?vperm  v24,v30,v31,$keyperm
lvx  v27,$x20,$key
stvx  v24,$x00,$key_  # off-load round[3]
?vperm  v25,v31,v26,$keyperm
lvx  v28,$x30,$key
stvx  v25,$x10,$key_  # off-load round[4]
addi  $key_,$sp,$FRAME+15 # rewind $key_
?vperm  v26,v26,v27,$keyperm
lvx  v29,$x40,$key
?vperm  v27,v27,v28,$keyperm
lvx  v30,$x50,$key
?vperm  v28,v28,v29,$keyperm
lvx  v31,$x60,$key
```

```
 ?vperm  v29,v29,v30,$keyperm
 lvx  $out0,$x70,$key  #
 borrow $out0
 ?vperm  v30,v30,v31,$keyperm
 lvx  v24,$x00,$key_  # pre-load round[1]
 ?vperm  v31,v31,$out0,$keyperm
 lvx  v25,$x10,$key_  # pre-load round[2]

 vadduwm  $two,$one,$one
 subi  $inp,$inp,15  # undo "caller"
 $SHL  $len,$len,4

 vadduwm  $out1,$ivec,$one # counter values ...
 vadduwm  $out2,$ivec,$two
 vxor  $out0,$ivec,$rndkey0 # ... xored with rndkey[0]
  le?li  $idx,8
 vadduwm  $out3,$out1,$two
 vxor  $out1,$out1,$rndkey0
  le?lvsl $inpperm,0,$idx
 vadduwm  $out4,$out2,$two
 vxor  $out2,$out2,$rndkey0
  le?vspltisb $tmp,0x0f
 vadduwm  $out5,$out3,$two
 vxor  $out3,$out3,$rndkey0
  le?vxor $inpperm,$inpperm,$tmp # transform for lvx_u/stvx_u
 vadduwm  $out6,$out4,$two
 vxor  $out4,$out4,$rndkey0
 vadduwm  $out7,$out5,$two
 vxor  $out5,$out5,$rndkey0
 vadduwm  $ivec,$out6,$two # next counter value
 vxor  $out6,$out6,$rndkey0
 vxor  $out7,$out7,$rndkey0

 mtctr  $rounds
 b  Loop_ctr32_enc8x
.align 5
Loop_ctr32_enc8x:
 vcipher  $out0,$out0,v24
 vcipher
  $out1,$out1,v24
 vcipher  $out2,$out2,v24
 vcipher  $out3,$out3,v24
 vcipher  $out4,$out4,v24
 vcipher  $out5,$out5,v24
 vcipher  $out6,$out6,v24
 vcipher  $out7,$out7,v24
Loop_ctr32_enc8x_middle:
 lvx  v24,$x20,$key_  # round[3]
```

```
addi  $key_,$key_,0x20

vcipher  $out0,$out0,v25
vcipher  $out1,$out1,v25
vcipher  $out2,$out2,v25
vcipher  $out3,$out3,v25
vcipher  $out4,$out4,v25
vcipher  $out5,$out5,v25
vcipher  $out6,$out6,v25
vcipher  $out7,$out7,v25
lvx  v25,$x10,$key_  # round[4]
bdnz  Loop_ctr32_enc8x

subic  r11,$len,256  # $len-256, borrow $key_
vcipher  $out0,$out0,v24
vcipher  $out1,$out1,v24
vcipher  $out2,$out2,v24
vcipher  $out3,$out3,v24
vcipher  $out4,$out4,v24
vcipher  $out5,$out5,v24
vcipher  $out6,$out6,v24
vcipher  $out7,$out7,v24

subfe  r0,r0,r0  # borrow?-1:0
vcipher  $out0,$out0,v25
vcipher  $out1,$out1,v25
vcipher  $out2,$out2,v25
vcipher  $out3,$out3,v25
vcipher  $out4,$out4,v25
vcipher  $out5,$out5,v25
vcipher  $out6,$out6,v25
vcipher  $out7,$out7,v25

and  r0,r0,r11
addi  $key_,$sp,$FRAME+15 #
rewind $key_
vcipher  $out0,$out0,v26
vcipher  $out1,$out1,v26
vcipher  $out2,$out2,v26
vcipher  $out3,$out3,v26
vcipher  $out4,$out4,v26
vcipher  $out5,$out5,v26
vcipher  $out6,$out6,v26
vcipher  $out7,$out7,v26
lvx  v24,$x00,$key_  # re-pre-load round[1]

subic  $len,$len,129  # $len-=129
vcipher  $out0,$out0,v27
```

```
addi  $len,$len,1  # $len-=128 really
vcipher  $out1,$out1,v27
vcipher  $out2,$out2,v27
vcipher  $out3,$out3,v27
vcipher  $out4,$out4,v27
vcipher  $out5,$out5,v27
vcipher  $out6,$out6,v27
vcipher  $out7,$out7,v27
lvx  v25,$x10,$key_  # re-pre-load round[2]

vcipher  $out0,$out0,v28
 lvx_u  $in0,$x00,$inp  # load input
vcipher  $out1,$out1,v28
 lvx_u  $in1,$x10,$inp
vcipher  $out2,$out2,v28
 lvx_u  $in2,$x20,$inp
vcipher  $out3,$out3,v28
 lvx_u  $in3,$x30,$inp
vcipher  $out4,$out4,v28
 lvx_u  $in4,$x40,$inp
vcipher  $out5,$out5,v28
 lvx_u  $in5,$x50,$inp
vcipher  $out6,$out6,v28

lvx_u  $in6,$x60,$inp
vcipher  $out7,$out7,v28
 lvx_u  $in7,$x70,$inp
 addi  $inp,$inp,0x80

vcipher  $out0,$out0,v29
 le?vperm $in0,$in0,$in0,$inpperm
vcipher  $out1,$out1,v29
 le?vperm $in1,$in1,$in1,$inpperm
vcipher  $out2,$out2,v29
 le?vperm $in2,$in2,$in2,$inpperm
vcipher  $out3,$out3,v29
 le?vperm $in3,$in3,$in3,$inpperm
vcipher  $out4,$out4,v29
 le?vperm $in4,$in4,$in4,$inpperm
vcipher  $out5,$out5,v29
 le?vperm $in5,$in5,$in5,$inpperm
vcipher  $out6,$out6,v29
 le?vperm $in6,$in6,$in6,$inpperm
vcipher  $out7,$out7,v29
 le?vperm $in7,$in7,$in7,$inpperm

add  $inp,$inp,r0  # $inp is adjusted in such
    # way that at exit from the
```

```
    # loop inX-in7 are loaded
    # with last "words"
subfe.  r0,r0,r0  # borrow?-1:0
vcipher  $out0,$out0,v30
 vxor  $in0,$in0,v31  # xor with last round key
vcipher  $out1,$out1,v30
 vxor  $in1,$in1,v31
vcipher  $out2,$out2,v30
 vxor  $in2,$in2,v31
vcipher  $out3,$out3,v30
 vxor  $in3,$in3,v31
vcipher  $out4,$out4,v30

vxor  $in4,$in4,v31
vcipher  $out5,$out5,v30
 vxor  $in5,$in5,v31
vcipher  $out6,$out6,v30
 vxor  $in6,$in6,v31
vcipher  $out7,$out7,v30
 vxor  $in7,$in7,v31

bne  Lctr32_enc8x_break # did $len-129 borrow?

vcipherlast $in0,$out0,$in0
vcipherlast $in1,$out1,$in1
 vadduwm $out1,$ivec,$one # counter values ...
vcipherlast $in2,$out2,$in2
 vadduwm $out2,$ivec,$two
 vxor  $out0,$ivec,$rndkey0 # ... xored with rndkey[0]
vcipherlast $in3,$out3,$in3
 vadduwm $out3,$out1,$two
 vxor  $out1,$out1,$rndkey0
vcipherlast $in4,$out4,$in4
 vadduwm $out4,$out2,$two
 vxor  $out2,$out2,$rndkey0
vcipherlast $in5,$out5,$in5
 vadduwm $out5,$out3,$two
 vxor  $out3,$out3,$rndkey0
vcipherlast $in6,$out6,$in6
 vadduwm $out6,$out4,$two
 vxor  $out4,$out4,$rndkey0
vcipherlast $in7,$out7,$in7
 vadduwm $out7,$out5,$two
 vxor  $out5,$out5,$rndkey0
le?vperm $in0,$in0,$in0,$inpperm
 vadduwm $ivec,$out6,$two # next counter value
 vxor  $out6,$out6,$rndkey0
le?vperm $in1,$in1,$in1,$inpperm
```

```
 vxor  $out7,$out7,$rndkey0
 mtctr  $rounds

  vcipher $out0,$out0,v24
 stvx_u  $in0,$x00,$out
 le?vperm $in2,$in2,$in2,$inpperm
  vcipher $out1,$out1,v24
 stvx_u  $in1,$x10,$out
 le?vperm $in3,$in3,$in3,$inpperm
  vcipher $out2,$out2,v24
 stvx_u  $in2,$x20,$out
 le?vperm $in4,$in4,$in4,$inpperm
  vcipher $out3,$out3,v24
 stvx_u  $in3,$x30,$out
 le?vperm $in5,$in5,$in5,$inpperm
  vcipher $out4,$out4,v24
 stvx_u  $in4,$x40,$out
 le?vperm $in6,$in6,$in6,$inpperm
  vcipher $out5,$out5,v24
 stvx_u  $in5,$x50,$out
 le?vperm $in7,$in7,$in7,$inpperm
  vcipher $out6,$out6,v24
 stvx_u  $in6,$x60,$out
  vcipher $out7,$out7,v24
 stvx_u  $in7,$x70,$out
 addi  $out,$out,0x80

 b  Loop_ctr32_enc8x_middle

.align 5
Lctr32_enc8x_break:
 cmpwi  $len,-0x60
 blt  Lctr32_enc8x_one
 nop
 beq  Lctr32_enc8x_two
 cmpwi  $len,-0x40
 blt  Lctr32_enc8x_three
 nop
 beq  Lctr32_enc8x_four
 cmpwi  $len,-0x20
 blt  Lctr32_enc8x_five
 nop
 beq  Lctr32_enc8x_six
 cmpwi  $len,0x00
 blt  Lctr32_enc8x_seven

Lctr32_enc8x_eight:
```

```
 vcipherlast $out0,$out0,$in0
 vcipherlast $out1,$out1,$in1
 vcipherlast $out2,$out2,$in2
 vcipherlast $out3,$out3,$in3
 vcipherlast $out4,$out4,$in4
 vcipherlast $out5,$out5,$in5
 vcipherlast $out6,$out6,$in6
 vcipherlast $out7,$out7,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x20,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x30,$out
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x40,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x50,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x60,$out
 stvx_u  $out7,$x70,$out
 addi  $out,$out,0x80
 b  Lctr32_enc8x_done

.align 5
Lctr32_enc8x_seven:
 vcipherlast $out0,$out0,$in1
 vcipherlast $out1,$out1,$in2
 vcipherlast $out2,$out2,$in3
 vcipherlast $out3,$out3,$in4
 vcipherlast $out4,$out4,$in5
 vcipherlast $out5,$out5,$in6
 vcipherlast $out6,$out6,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x20,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x30,$out
 le?vperm $out5,$out5,$out5,$inpperm
```

```
 stvx_u  $out4,$x40,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x50,$out
 stvx_u  $out6,$x60,$out
 addi  $out,$out,0x70
 b  Lctr32_enc8x_done

.align 5
Lctr32_enc8x_six:
 vcipherlast $out0,$out0,$in2
 vcipherlast $out1,$out1,$in3
 vcipherlast $out2,$out2,$in4
 vcipherlast $out3,$out3,$in5
 vcipherlast $out4,$out4,$in6
 vcipherlast $out5,$out5,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x20,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x30,$out
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x40,$out
 stvx_u  $out5,$x50,$out
 addi  $out,$out,0x60
 b  Lctr32_enc8x_done

.align 5
Lctr32_enc8x_five:
 vcipherlast $out0,$out0,$in3
 vcipherlast $out1,$out1,$in4
 vcipherlast $out2,$out2,$in5
 vcipherlast $out3,$out3,$in6
 vcipherlast $out4,$out4,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x20,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x30,$out
```

```
 stvx_u  $out4,$x40,$out
 addi  $out,$out,0x50
 b  Lctr32_enc8x_done

.align 5
Lctr32_enc8x_four:
 vcipherlast $out0,$out0,$in4
 vcipherlast $out1,$out1,$in5
 vcipherlast $out2,$out2,$in6
 vcipherlast $out3,$out3,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x20,$out
 stvx_u  $out3,$x30,$out
 addi  $out,$out,0x40
 b  Lctr32_enc8x_done

.align 5
Lctr32_enc8x_three:
 vcipherlast $out0,$out0,$in5
 vcipherlast $out1,$out1,$in6
 vcipherlast $out2,$out2,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 stvx_u  $out2,$x20,$out
 addi  $out,$out,0x30
 b  Lcbc_dec8x_done

.align 5
Lctr32_enc8x_two:
 vcipherlast $out0,$out0,$in6
 vcipherlast $out1,$out1,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 stvx_u  $out1,$x10,$out
 addi  $out,$out,0x20
 b  Lcbc_dec8x_done
```

```
.align 5
Lctr32_enc8x_one:
 vcipherlast $out0,$out0,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 stvx_u  $out0,0,$out
 addi  $out,$out,0x10

Lctr32_enc8x_done:
 li  r10,`$FRAME+15`
 li  r11,`$FRAME+31`
 stvx  $inpperm,r10,$sp #
 wipe copies of round keys
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32
 stvx  $inpperm,r10,$sp
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32
 stvx  $inpperm,r10,$sp
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32
 stvx  $inpperm,r10,$sp
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32

 mtspr  256,$vrsave
 lvx  v20,r10,$sp  #
 ABI says so
 addi  r10,r10,32
 lvx  v21,r11,$sp
 addi  r11,r11,32
 lvx  v22,r10,$sp
 addi  r10,r10,32
 lvx  v23,r11,$sp
 addi  r11,r11,32
 lvx  v24,r10,$sp
 addi  r10,r10,32
 lvx  v25,r11,$sp
 addi  r11,r11,32
 lvx  v26,r10,$sp
 addi  r10,r10,32
 lvx  v27,r11,$sp
 addi  r11,r11,32
```

```
 lvx  v28,r10,$sp
 addi  r10,r10,32
 lvx  v29,r11,$sp
 addi  r11,r11,32
 lvx  v30,r10,$sp
 lvx  v31,r11,$sp
 $POP  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 $POP  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 $POP  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 $POP  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 $POP  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 $POP  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 addi  $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
 blr
 .long  0
 .byte  0,12,0x04,0,0x80,6,6,0
 .long  0
.size .${prefix}_ctr32_encrypt_blocks,.-.${prefix}_ctr32_encrypt_blocks
___
}} }}}

######################################################################
{{{ #
 XTS procedures      #
my ($inp,$out,$len,$key1,$key2,$ivp,$rounds,$idx) = map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout) =     map("v$_",(0..2));
my ($output,$inptail,$inpperm,$leperm,$keyperm) = map("v$_",(3..7));
my ($tweak,$seven,$eighty7,$tmp,$tweak1) =  map("v$_",(8..12));
my $taillen = $key2;

  ($inp,$idx) = ($idx,$inp);    # reassign

$code.=<<___;
.globl .${prefix}_xts_encrypt
.align 5
.${prefix}_xts_encrypt:
 mr  $inp,r3    # reassign
 li  r3,-1
 ${UCMP}i $len,16
 bltlr-

 lis  r0,0xfff0
 mfspr  r12,256    # save vrsave
 li  r11,0
 mtspr  256,r0

 vspltisb $seven,0x07   # 0x070707..07
 le?lvsl  $leperm,r11,r11
```

```
le?vspltisb $tmp,0x0f
le?vxor  $leperm,$leperm,$seven

li  $idx,15
lvx  $tweak,0,$ivp   # load [unaligned] iv
lvsl  $inpperm,0,$ivp
lvx  $inptail,$idx,$ivp
le?vxor  $inpperm,$inpperm,$tmp
vperm  $tweak,$tweak,$inptail,$inpperm

?lvsl  $keyperm,0,$key2  #
prepare for unaligned key
lwz  $rounds,240($key2)
srwi  $rounds,$rounds,1
subi  $rounds,$rounds,1
li  $idx,16

neg  r11,$inp
lvsr  $inpperm,0,r11   # prepare for unaligned load
lvx  $inout,0,$inp
addi  $inp,$inp,15   # 15 is not typo
le?vxor  $inpperm,$inpperm,$tmp

lvx  $rndkey0,0,$key2
lvx  $rndkey1,$idx,$key2
addi  $idx,$idx,16
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor  $tweak,$tweak,$rndkey0
lvx  $rndkey0,$idx,$key2
addi  $idx,$idx,16
mtctr  $rounds

Ltweak_xts_enc:
?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher  $tweak,$tweak,$rndkey1
lvx  $rndkey1,$idx,$key2
addi  $idx,$idx,16
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher  $tweak,$tweak,$rndkey0
lvx  $rndkey0,$idx,$key2
addi  $idx,$idx,16
bdnz  Ltweak_xts_enc

?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher  $tweak,$tweak,$rndkey1
lvx  $rndkey1,$idx,$key2
li  $idx,16
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
```

```
 vcipherlast $tweak,$tweak,$rndkey0

 lvx  $inptail,0,$inp
 addi  $inp,$inp,16

 ?lvsl  $keyperm,0,$key1  #
 prepare for unaligned key
 lwz  $rounds,240($key1)
 srwi  $rounds,$rounds,1
 subi  $rounds,$rounds,1
 li  $idx,16

 vslb  $eighty7,$seven,$seven  # 0x808080..80
 vor  $eighty7,$eighty7,$seven # 0x878787..87
 vspltisb $tmp,1    # 0x010101..01
 vsldoi  $eighty7,$eighty7,$tmp,15 # 0x870101..01

 ${UCMP}i $len,96
 bge  _aesp8_xts_encrypt6x

 andi.  $taillen,$len,15
 subic  r0,$len,32
 subi  $taillen,$taillen,16
 subfe  r0,r0,r0
 and  r0,r0,$taillen
 add  $inp,$inp,r0

 lvx  $rndkey0,0,$key1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 vperm  $inout,$inout,$inptail,$inpperm
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$inout,$tweak
 vxor  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16
 mtctr  $rounds
 b  Loop_xts_enc

.align 5
Loop_xts_enc:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipher  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
```

```
addi  $idx,$idx,16
bdnz  Loop_xts_enc

?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher  $inout,$inout,$rndkey1
lvx  $rndkey1,$idx,$key1
li  $idx,16
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor  $rndkey0,$rndkey0,$tweak
vcipherlast $output,$inout,$rndkey0

le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out
addi  $out,$out,16

subic.  $len,$len,16
beq  Lxts_enc_done

vmr  $inout,$inptail
lvx  $inptail,0,$inp
addi  $inp,$inp,16
lvx  $rndkey0,0,$key1
lvx  $rndkey1,$idx,$key1
addi  $idx,$idx,16

subic  r0,$len,32
subfe  r0,r0,r0
and  r0,r0,$taillen
add  $inp,$inp,r0

vsrab  $tmp,$tweak,$seven  #
next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
vand  $tmp,$tmp,$eighty7
vxor  $tweak,$tweak,$tmp

vperm  $inout,$inout,$inptail,$inpperm
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor  $inout,$inout,$tweak
vxor  $output,$output,$rndkey0 #
just in case $len<16
vxor  $inout,$inout,$rndkey0
lvx  $rndkey0,$idx,$key1
addi  $idx,$idx,16
```

```
 mtctr  $rounds
 ${UCMP}i $len,16
 bge  Loop_xts_enc

 vxor  $output,$output,$tweak
 lvsr  $inpperm,0,$len   # $inpperm is no longer needed
 vxor  $inptail,$inptail,$inptail # $inptail is no longer needed
 vspltisb $tmp,-1
 vperm  $inptail,$inptail,$tmp,$inpperm
 vsel  $inout,$inout,$output,$inptail

 subi  r11,$out,17
 subi  $out,$out,16
 mtctr  $len
 li  $len,16
Loop_xts_enc_steal:
 lbzu  r0,1(r11)
 stb  r0,16(r11)
 bdnz  Loop_xts_enc_steal

 mtctr  $rounds
 b  Loop_xts_enc   # one more time...

Lxts_enc_done:
 mtspr  256,r12    # restore vrsave
 li  r3,0
 blr
 .long  0
 .byte  0,12,0x04,0,0x80,6,6,0
 .long  0
.size .${prefix}_xts_encrypt,.-.${prefix}_xts_encrypt

.globl .${prefix}_xts_decrypt
.align 5
.${prefix}_xts_decrypt:
 mr  $inp,r3    # reassign
 li  r3,-1
 ${UCMP}i $len,16
 bltlr-

 lis  r0,0xfff8
 mfspr  r12,256    #
 save vrsave
 li  r11,0
 mtspr  256,r0

 andi.  r0,$len,15
 neg  r0,r0
```

```
andi.  r0,r0,16
sub  $len,$len,r0

vspltisb $seven,0x07   # 0x070707..07
le?lvsl  $leperm,r11,r11
le?vspltisb $tmp,0x0f
le?vxor  $leperm,$leperm,$seven

li  $idx,15
lvx  $tweak,0,$ivp   # load [unaligned] iv
lvsl  $inpperm,0,$ivp
lvx  $inptail,$idx,$ivp
le?vxor  $inpperm,$inpperm,$tmp
vperm  $tweak,$tweak,$inptail,$inpperm

?lvsl  $keyperm,0,$key2  # prepare for unaligned key
lwz  $rounds,240($key2)
srwi  $rounds,$rounds,1
subi  $rounds,$rounds,1
li  $idx,16

neg  r11,$inp
lvsr  $inpperm,0,r11   # prepare for unaligned load
lvx  $inout,0,$inp
addi  $inp,$inp,15   # 15 is not typo
le?vxor  $inpperm,$inpperm,$tmp

lvx  $rndkey0,0,$key2
lvx  $rndkey1,$idx,$key2
addi  $idx,$idx,16
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor  $tweak,$tweak,$rndkey0
lvx  $rndkey0,$idx,$key2
addi  $idx,$idx,16
mtctr  $rounds

Ltweak_xts_dec:
?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher  $tweak,$tweak,$rndkey1
lvx  $rndkey1,$idx,$key2
addi  $idx,$idx,16
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher  $tweak,$tweak,$rndkey0
lvx  $rndkey0,$idx,$key2
addi  $idx,$idx,16
bdnz  Ltweak_xts_dec

?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
```

```
 vcipher  $tweak,$tweak,$rndkey1
 lvx  $rndkey1,$idx,$key2
 li  $idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipherlast $tweak,$tweak,$rndkey0

 lvx  $inptail,0,$inp
 addi  $inp,$inp,16

 ?lvsl  $keyperm,0,$key1  #
 prepare for unaligned key
 lwz  $rounds,240($key1)
 srwi  $rounds,$rounds,1
 subi  $rounds,$rounds,1
 li  $idx,16

 vslb  $eighty7,$seven,$seven  # 0x808080..80
 vor  $eighty7,$eighty7,$seven # 0x878787..87
 vspltisb $tmp,1    # 0x010101..01
 vsldoi  $eighty7,$eighty7,$tmp,15 # 0x870101..01

 ${UCMP}i $len,96
 bge  _aesp8_xts_decrypt6x

 lvx  $rndkey0,0,$key1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 vperm  $inout,$inout,$inptail,$inpperm
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$inout,$tweak
 vxor  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16
 mtctr  $rounds

 ${UCMP}i $len,16
 blt  Ltail_xts_dec
 be?b  Loop_xts_dec

.align 5
Loop_xts_dec:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vncipher $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vncipher $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
```

```
addi  $idx,$idx,16
bdnz  Loop_xts_dec

?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx  $rndkey1,$idx,$key1
li  $idx,16
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor  $rndkey0,$rndkey0,$tweak
vncipherlast $output,$inout,$rndkey0

le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out
addi  $out,$out,16

subic.  $len,$len,16
beq  Lxts_dec_done

vmr  $inout,$inptail
lvx  $inptail,0,$inp
addi  $inp,$inp,16
lvx  $rndkey0,0,$key1
lvx  $rndkey1,$idx,$key1
addi  $idx,$idx,16

vsrab  $tmp,$tweak,$seven  #
next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
vand  $tmp,$tmp,$eighty7
vxor  $tweak,$tweak,$tmp

vperm  $inout,$inout,$inptail,$inpperm
?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor  $inout,$inout,$tweak
vxor  $inout,$inout,$rndkey0
lvx  $rndkey0,$idx,$key1
addi  $idx,$idx,16

mtctr  $rounds
${UCMP}i $len,16
bge  Loop_xts_dec

Ltail_xts_dec:
vsrab  $tmp,$tweak,$seven  # next tweak value
vaddubm  $tweak1,$tweak,$tweak
```

```
 vsldoi  $tmp,$tmp,$tmp,15
 vand  $tmp,$tmp,$eighty7
 vxor  $tweak1,$tweak1,$tmp

 subi  $inp,$inp,16
 add  $inp,$inp,$len

 vxor  $inout,$inout,$tweak  # :-(
 vxor  $inout,$inout,$tweak1  # :-)

Loop_xts_dec_short:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vncipher $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vncipher $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16
 bdnz  Loop_xts_dec_short

 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vncipher $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key1
 li  $idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $rndkey0,$rndkey0,$tweak1
 vncipherlast $output,$inout,$rndkey0

 le?vperm $tmp,$output,$output,$leperm
 be?nop
 le?stvx_u $tmp,0,$out
 be?stvx_u $output,0,$out

 vmr  $inout,$inptail
 lvx  $inptail,0,$inp
 #addi  $inp,$inp,16
 lvx  $rndkey0,0,$key1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 vperm  $inout,$inout,$inptail,$inpperm
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm

 lvsr  $inpperm,0,$len   #
 $inpperm is no longer needed
 vxor  $inptail,$inptail,$inptail # $inptail is no longer needed
 vspltisb $tmp,-1
 vperm  $inptail,$inptail,$tmp,$inpperm
```

```
 vsel  $inout,$inout,$output,$inptail

 vxor  $rndkey0,$rndkey0,$tweak
 vxor  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16

 subi  r11,$out,1
 mtctr  $len
 li  $len,16
Loop_xts_dec_steal:
 lbzu  r0,1(r11)
 stb  r0,16(r11)
 bdnz  Loop_xts_dec_steal

 mtctr  $rounds
 b  Loop_xts_dec   #
 one more time...

Lxts_dec_done:
 mtspr  256,r12    # restore vrsave
 li  r3,0
 blr
 .long  0
 .byte  0,12,0x04,0,0x80,6,6,0
 .long  0
.size .${prefix}_xts_decrypt,.-.${prefix}_xts_decrypt
___
#####################################################################################
{{ # Optimized XTS procedures     #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
   $x00=0 if ($flavour =~ /osx/);
my ($in0,  $in1,  $in2,  $in3,  $in4,  $in5 )=map("v$_",(0..5));
my ($out0, $out1, $out2, $out3, $out4, $out5)=map("v$_",(7,12..16));
my ($twk0, $twk1, $twk2, $twk3, $twk4, $twk5)=map("v$_",(17..22));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
   # v26-v31 last 6 round keys
my ($keyperm)=($out0); # aliases with "caller", redundant assignment
my $taillen=$x70;

$code.=<<___;
.align 5
_aesp8_xts_encrypt6x:
 $STU  $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
 mflr  r0
 li  r7,`$FRAME+8*16+15`
 li  r8,`$FRAME+8*16+31`
```

```
$PUSH  r0,`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
stvx  v20,r7,$sp  #
ABI says so
addi  r7,r7,32
stvx  v21,r8,$sp
addi  r8,r8,32
stvx  v22,r7,$sp
addi  r7,r7,32
stvx  v23,r8,$sp
addi  r8,r8,32
stvx  v24,r7,$sp
addi  r7,r7,32
stvx  v25,r8,$sp
addi  r8,r8,32
stvx  v26,r7,$sp
addi  r7,r7,32
stvx  v27,r8,$sp
addi  r8,r8,32
stvx  v28,r7,$sp
addi  r7,r7,32
stvx  v29,r8,$sp
addi  r8,r8,32
stvx  v30,r7,$sp
stvx  v31,r8,$sp
mr  r7,r0
li  r0,-1
stw  $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li  $x10,0x10
$PUSH  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li  $x20,0x20
$PUSH  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li  $x30,0x30
$PUSH  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li  $x40,0x40
$PUSH  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li  $x50,0x50
$PUSH  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li  $x60,0x60
$PUSH  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li  $x70,0x70
mtspr  256,r0

subi  $rounds,$rounds,3 # -4 in total

lvx  $rndkey0,$x00,$key1 # load key schedule
lvx  v30,$x10,$key1
addi  $key1,$key1,0x20
lvx  v31,$x00,$key1
```

```
 ?vperm  $rndkey0,$rndkey0,v30,$keyperm
 addi  $key_,$sp,$FRAME+15
 mtctr  $rounds

Load_xts_enc_key:
 ?vperm  v24,v30,v31,$keyperm
 lvx  v30,$x10,$key1
 addi  $key1,$key1,0x20
 stvx  v24,$x00,$key_  #
 off-load round[1]
 ?vperm  v25,v31,v30,$keyperm
 lvx  v31,$x00,$key1
 stvx  v25,$x10,$key_  # off-load round[2]
 addi  $key_,$key_,0x20
 bdnz  Load_xts_enc_key

 lvx  v26,$x10,$key1
 ?vperm  v24,v30,v31,$keyperm
 lvx  v27,$x20,$key1
 stvx  v24,$x00,$key_  # off-load round[3]
 ?vperm  v25,v31,v26,$keyperm
 lvx  v28,$x30,$key1
 stvx  v25,$x10,$key_  # off-load round[4]
 addi  $key_,$sp,$FRAME+15 # rewind $key_
 ?vperm  v26,v26,v27,$keyperm
 lvx  v29,$x40,$key1
 ?vperm  v27,v27,v28,$keyperm
 lvx  v30,$x50,$key1
 ?vperm  v28,v28,v29,$keyperm
 lvx  v31,$x60,$key1
 ?vperm  v29,v29,v30,$keyperm
 lvx  $twk5,$x70,$key1 # borrow $twk5
 ?vperm  v30,v30,v31,$keyperm
 lvx  v24,$x00,$key_  # pre-load round[1]
 ?vperm  v31,v31,$twk5,$keyperm
 lvx  v25,$x10,$key_  #
 pre-load round[2]

  vperm  $in0,$inout,$inptail,$inpperm
  subi  $inp,$inp,31  # undo "caller"
 vxor  $twk0,$tweak,$rndkey0
 vsrab  $tmp,$tweak,$seven # next tweak value
 vaddubm  $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
 vand  $tmp,$tmp,$eighty7
  vxor  $out0,$in0,$twk0
 vxor  $tweak,$tweak,$tmp
```

```
 lvx_u  $in1,$x10,$inp
vxor  $twk1,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in1,$in1,$in1,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out1,$in1,$twk1
vxor  $tweak,$tweak,$tmp

 lvx_u  $in2,$x20,$inp
 andi.  $taillen,$len,15
vxor  $twk2,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in2,$in2,$in2,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out2,$in2,$twk2
vxor  $tweak,$tweak,$tmp

 lvx_u  $in3,$x30,$inp
 sub  $len,$len,$taillen
vxor  $twk3,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven #
next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in3,$in3,$in3,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out3,$in3,$twk3
vxor  $tweak,$tweak,$tmp

 lvx_u  $in4,$x40,$inp
 subi  $len,$len,0x60
vxor  $twk4,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in4,$in4,$in4,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out4,$in4,$twk4
vxor  $tweak,$tweak,$tmp

 lvx_u  $in5,$x50,$inp
 addi  $inp,$inp,0x60
vxor  $twk5,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
```

```
 vaddubm  $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
  le?vperm $in5,$in5,$in5,$leperm
 vand  $tmp,$tmp,$eighty7
  vxor  $out5,$in5,$twk5
 vxor  $tweak,$tweak,$tmp

 vxor  v31,v31,$rndkey0
 mtctr  $rounds
 b  Loop_xts_enc6x

.align 5
Loop_xts_enc6x:
 vcipher  $out0,$out0,v24
 vcipher  $out1,$out1,v24
 vcipher  $out2,$out2,v24
 vcipher  $out3,$out3,v24
 vcipher  $out4,$out4,v24
 vcipher  $out5,$out5,v24
 lvx  v24,$x20,$key_  #
 round[3]
 addi  $key_,$key_,0x20

 vcipher  $out0,$out0,v25
 vcipher  $out1,$out1,v25
 vcipher  $out2,$out2,v25
 vcipher  $out3,$out3,v25
 vcipher  $out4,$out4,v25
 vcipher  $out5,$out5,v25
 lvx  v25,$x10,$key_  # round[4]
 bdnz  Loop_xts_enc6x

 subic  $len,$len,96  # $len-=96
  vxor  $in0,$twk0,v31  # xor with last round key
 vcipher  $out0,$out0,v24
 vcipher  $out1,$out1,v24
  vsrab  $tmp,$tweak,$seven # next tweak value
  vxor  $twk0,$tweak,$rndkey0
  vaddubm $tweak,$tweak,$tweak
 vcipher  $out2,$out2,v24
 vcipher  $out3,$out3,v24
  vsldoi  $tmp,$tmp,$tmp,15
 vcipher  $out4,$out4,v24
 vcipher  $out5,$out5,v24

 subfe.  r0,r0,r0  # borrow?-1:0
  vand  $tmp,$tmp,$eighty7
 vcipher  $out0,$out0,v25
```

```
vcipher  $out1,$out1,v25
 vxor  $tweak,$tweak,$tmp
vcipher  $out2,$out2,v25
vcipher  $out3,$out3,v25
 vxor  $in1,$twk1,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk1,$tweak,$rndkey0
vcipher  $out4,$out4,v25
vcipher  $out5,$out5,v25

and  r0,r0,$len

vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vcipher  $out0,$out0,v26
vcipher  $out1,$out1,v26
 vand  $tmp,$tmp,$eighty7
vcipher  $out2,$out2,v26
vcipher  $out3,$out3,v26
 vxor  $tweak,$tweak,$tmp
vcipher  $out4,$out4,v26
vcipher  $out5,$out5,v26

add  $inp,$inp,r0  # $inp is adjusted in such
    # way that at exit from the
    # loop inX-in5 are loaded
    # with last "words"
 vxor  $in2,$twk2,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk2,$tweak,$rndkey0
 vaddubm $tweak,$tweak,$tweak
vcipher  $out0,$out0,v27
vcipher  $out1,$out1,v27
 vsldoi  $tmp,$tmp,$tmp,15
vcipher  $out2,$out2,v27
vcipher  $out3,$out3,v27
 vand  $tmp,$tmp,$eighty7
vcipher  $out4,$out4,v27
vcipher  $out5,$out5,v27

addi  $key_,$sp,$FRAME+15 # rewind $key_
 vxor  $tweak,$tweak,$tmp
vcipher  $out0,$out0,v28
vcipher  $out1,$out1,v28
 vxor  $in3,$twk3,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk3,$tweak,$rndkey0
vcipher  $out2,$out2,v28
```

```
vcipher  $out3,$out3,v28

vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vcipher  $out4,$out4,v28
vcipher  $out5,$out5,v28
lvx  v24,$x00,$key_  # re-pre-load round[1]
 vand  $tmp,$tmp,$eighty7

vcipher  $out0,$out0,v29
vcipher  $out1,$out1,v29
 vxor  $tweak,$tweak,$tmp
vcipher  $out2,$out2,v29
vcipher  $out3,$out3,v29
 vxor  $in4,$twk4,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk4,$tweak,$rndkey0
vcipher  $out4,$out4,v29
vcipher  $out5,$out5,v29
lvx  v25,$x10,$key_  # re-pre-load round[2]
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15

vcipher  $out0,$out0,v30
vcipher  $out1,$out1,v30
 vand  $tmp,$tmp,$eighty7
vcipher  $out2,$out2,v30
vcipher  $out3,$out3,v30
 vxor  $tweak,$tweak,$tmp
vcipher  $out4,$out4,v30
vcipher  $out5,$out5,v30
 vxor  $in5,$twk5,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk5,$tweak,$rndkey0

vcipherlast $out0,$out0,$in0
 lvx_u  $in0,$x00,$inp  # load next input
block
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vcipherlast $out1,$out1,$in1
 lvx_u  $in1,$x10,$inp
vcipherlast $out2,$out2,$in2
 le?vperm $in0,$in0,$in0,$leperm
 lvx_u  $in2,$x20,$inp
 vand  $tmp,$tmp,$eighty7
vcipherlast $out3,$out3,$in3
 le?vperm $in1,$in1,$in1,$leperm
```

```
 lvx_u  $in3,$x30,$inp
vcipherlast $out4,$out4,$in4
 le?vperm $in2,$in2,$in2,$leperm
 lvx_u  $in4,$x40,$inp
 vxor  $tweak,$tweak,$tmp
vcipherlast $tmp,$out5,$in5  # last block might be needed
    # in stealing mode
 le?vperm $in3,$in3,$in3,$leperm
 lvx_u  $in5,$x50,$inp
 addi  $inp,$inp,0x60
 le?vperm $in4,$in4,$in4,$leperm
 le?vperm $in5,$in5,$in5,$leperm

le?vperm $out0,$out0,$out0,$leperm
le?vperm $out1,$out1,$out1,$leperm
stvx_u  $out0,$x00,$out  # store output
 vxor  $out0,$in0,$twk0
le?vperm $out2,$out2,$out2,$leperm
stvx_u  $out1,$x10,$out
 vxor  $out1,$in1,$twk1
le?vperm $out3,$out3,$out3,$leperm
stvx_u  $out2,$x20,$out
 vxor  $out2,$in2,$twk2
le?vperm $out4,$out4,$out4,$leperm
stvx_u  $out3,$x30,$out

vxor  $out3,$in3,$twk3
le?vperm $out5,$tmp,$tmp,$leperm
stvx_u  $out4,$x40,$out
 vxor  $out4,$in4,$twk4
le?stvx_u $out5,$x50,$out
be?stvx_u $tmp, $x50,$out
 vxor  $out5,$in5,$twk5
addi  $out,$out,0x60

mtctr  $rounds
beq  Loop_xts_enc6x  # did $len-=96 borrow?

addic.  $len,$len,0x60
beq  Lxts_enc6x_zero
cmpwi  $len,0x20
blt  Lxts_enc6x_one
nop
beq  Lxts_enc6x_two
cmpwi  $len,0x40
blt  Lxts_enc6x_three
nop
beq  Lxts_enc6x_four
```

```
Lxts_enc6x_five:
 vxor  $out0,$in1,$twk0
 vxor  $out1,$in2,$twk1
 vxor  $out2,$in3,$twk2
 vxor  $out3,$in4,$twk3
 vxor  $out4,$in5,$twk4

 bl  _aesp8_xts_enc5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk5  # unused tweak
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$leperm
 stvx_u  $out2,$x20,$out
 vxor  $tmp,$out4,$twk5 # last block prep for stealing
 le?vperm $out4,$out4,$out4,$leperm
 stvx_u  $out3,$x30,$out
 stvx_u  $out4,$x40,$out
 addi  $out,$out,0x50
 bne  Lxts_enc6x_steal
 b  Lxts_enc6x_done

.align 4
Lxts_enc6x_four:
 vxor  $out0,$in2,$twk0
 vxor  $out1,$in3,$twk1
 vxor  $out2,$in4,$twk2
 vxor  $out3,$in5,$twk3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_enc5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk4  #
 unused tweak
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 vxor  $tmp,$out3,$twk4 # last block prep for stealing
 le?vperm $out3,$out3,$out3,$leperm
 stvx_u  $out2,$x20,$out
 stvx_u  $out3,$x30,$out
 addi  $out,$out,0x40
```

```
 bne  Lxts_enc6x_steal
 b  Lxts_enc6x_done

.align 4
Lxts_enc6x_three:
 vxor  $out0,$in3,$twk0
 vxor  $out1,$in4,$twk1
 vxor  $out2,$in5,$twk2
 vxor  $out3,$out3,$out3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_enc5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk3  # unused tweak
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  #
 store output
 vxor  $tmp,$out2,$twk3 # last block prep for stealing
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 stvx_u  $out2,$x20,$out
 addi  $out,$out,0x30
 bne  Lxts_enc6x_steal
 b  Lxts_enc6x_done

.align 4
Lxts_enc6x_two:
 vxor  $out0,$in4,$twk0
 vxor  $out1,$in5,$twk1
 vxor  $out2,$out2,$out2
 vxor  $out3,$out3,$out3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_enc5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk2  # unused tweak
 vxor  $tmp,$out1,$twk2 # last block prep for stealing
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 stvx_u  $out1,$x10,$out
 addi  $out,$out,0x20
 bne  Lxts_enc6x_steal
 b  Lxts_enc6x_done

.align 4
Lxts_enc6x_one:
```

```
 vxor  $out0,$in5,$twk0
 nop
Loop_xts_enc1x:
 vcipher  $out0,$out0,v24
 lvx  v24,$x20,$key_  # round[3]
 addi  $key_,$key_,0x20

 vcipher  $out0,$out0,v25
 lvx  v25,$x10,$key_  # round[4]
 bdnz  Loop_xts_enc1x

 add  $inp,$inp,$taillen
 cmpwi  $taillen,0
 vcipher  $out0,$out0,v24

 subi  $inp,$inp,16
 vcipher  $out0,$out0,v25

 lvsr  $inpperm,0,$taillen
 vcipher  $out0,$out0,v26

 lvx_u  $in0,0,$inp
 vcipher  $out0,$out0,v27

 addi  $key_,$sp,$FRAME+15 #
 rewind $key_
 vcipher  $out0,$out0,v28
 lvx  v24,$x00,$key_  # re-pre-load round[1]

 vcipher  $out0,$out0,v29
 lvx  v25,$x10,$key_  # re-pre-load round[2]
  vxor  $twk0,$twk0,v31

 le?vperm $in0,$in0,$in0,$leperm
 vcipher  $out0,$out0,v30

 vperm  $in0,$in0,$in0,$inpperm
 vcipherlast $out0,$out0,$twk0

 vmr  $twk0,$twk1  # unused tweak
 vxor  $tmp,$out0,$twk1 # last block prep for stealing
 le?vperm $out0,$out0,$out0,$leperm
 stvx_u  $out0,$x00,$out  # store output
 addi  $out,$out,0x10
 bne  Lxts_enc6x_steal
 b  Lxts_enc6x_done

.align 4
```

```
Lxts_enc6x_zero:
 cmpwi  $taillen,0
 beq  Lxts_enc6x_done

 add  $inp,$inp,$taillen
 subi  $inp,$inp,16
 lvx_u  $in0,0,$inp
 lvsr  $inpperm,0,$taillen # $in5 is no more
 le?vperm $in0,$in0,$in0,$leperm
 vperm  $in0,$in0,$in0,$inpperm
 vxor  $tmp,$tmp,$twk0
Lxts_enc6x_steal:
 vxor  $in0,$in0,$twk0
 vxor  $out0,$out0,$out0
 vspltisb $out1,-1
 vperm  $out0,$out0,$out1,$inpperm
 vsel  $out0,$in0,$tmp,$out0 #
 $tmp is last block, remember?

 subi  r3,$out,17
 subi  $out,$out,16
 mtctr  $taillen
Loop_xts_enc6x_steal:
 lbzu  r0,1(r3)
 stb  r0,16(r3)
 bdnz  Loop_xts_enc6x_steal

 li  $taillen,0
 mtctr  $rounds
 b  Loop_xts_enc1x  # one more time...

.align 4
Lxts_enc6x_done:
 mtlr  r7
 li  r10,`$FRAME+15`
 li  r11,`$FRAME+31`
 stvx  $seven,r10,$sp  # wipe copies of round keys
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
```

```
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32

 mtspr  256,$vrsave
 lvx  v20,r10,$sp  # ABI says so
 addi  r10,r10,32
 lvx  v21,r11,$sp
 addi  r11,r11,32
 lvx  v22,r10,$sp
 addi  r10,r10,32
 lvx  v23,r11,$sp
 addi  r11,r11,32
 lvx  v24,r10,$sp
 addi  r10,r10,32
 lvx  v25,r11,$sp
 addi  r11,r11,32
 lvx  v26,r10,$sp
 addi  r10,r10,32
 lvx  v27,r11,$sp
 addi  r11,r11,32
 lvx  v28,r10,$sp
 addi  r10,r10,32
 lvx  v29,r11,$sp
 addi  r11,r11,32
 lvx  v30,r10,$sp
 lvx  v31,r11,$sp
 $POP  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 $POP  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 $POP  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 $POP  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 $POP  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 $POP  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 addi  $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
 blr
 .long  0
 .byte  0,12,0x04,1,0x80,6,6,0
 .long  0

.align 5
_aesp8_xts_enc5x:
 vcipher  $out0,$out0,v24
 vcipher  $out1,$out1,v24
 vcipher  $out2,$out2,v24
 vcipher  $out3,$out3,v24
 vcipher  $out4,$out4,v24
 lvx  v24,$x20,$key_  #
```

```
round[3]
addi  $key_,$key_,0x20

vcipher  $out0,$out0,v25
vcipher  $out1,$out1,v25
vcipher  $out2,$out2,v25
vcipher  $out3,$out3,v25
vcipher  $out4,$out4,v25
lvx  v25,$x10,$key_  # round[4]
bdnz  _aesp8_xts_enc5x

add  $inp,$inp,$taillen
cmpwi  $taillen,0
vcipher  $out0,$out0,v24
vcipher  $out1,$out1,v24
vcipher  $out2,$out2,v24
vcipher  $out3,$out3,v24
vcipher  $out4,$out4,v24

subi  $inp,$inp,16
vcipher  $out0,$out0,v25
vcipher  $out1,$out1,v25
vcipher  $out2,$out2,v25
vcipher  $out3,$out3,v25
vcipher  $out4,$out4,v25

vxor  $twk0,$twk0,v31

vcipher  $out0,$out0,v26
lvsr  $inpperm,r0,$taillen # $in5 is no more
vcipher  $out1,$out1,v26
vcipher  $out2,$out2,v26
vcipher  $out3,$out3,v26
vcipher  $out4,$out4,v26
 vxor  $in1,$twk1,v31

vcipher  $out0,$out0,v27
lvx_u  $in0,0,$inp
vcipher  $out1,$out1,v27
vcipher  $out2,$out2,v27
vcipher  $out3,$out3,v27
vcipher  $out4,$out4,v27
 vxor  $in2,$twk2,v31

addi  $key_,$sp,$FRAME+15 # rewind $key_
vcipher  $out0,$out0,v28
vcipher  $out1,$out1,v28
vcipher  $out2,$out2,v28
```

```
 vcipher  $out3,$out3,v28
 vcipher  $out4,$out4,v28
 lvx  v24,$x00,$key_  # re-pre-load round[1]
  vxor  $in3,$twk3,v31

 vcipher  $out0,$out0,v29
 le?vperm $in0,$in0,$in0,$leperm
 vcipher  $out1,$out1,v29
 vcipher  $out2,$out2,v29
 vcipher  $out3,$out3,v29
 vcipher  $out4,$out4,v29
 lvx  v25,$x10,$key_  #
 re-pre-load round[2]
  vxor  $in4,$twk4,v31

 vcipher  $out0,$out0,v30
 vperm  $in0,$in0,$in0,$inpperm
 vcipher  $out1,$out1,v30
 vcipher  $out2,$out2,v30
 vcipher  $out3,$out3,v30
 vcipher  $out4,$out4,v30

 vcipherlast $out0,$out0,$twk0
 vcipherlast $out1,$out1,$in1
 vcipherlast $out2,$out2,$in2
 vcipherlast $out3,$out3,$in3
 vcipherlast $out4,$out4,$in4
 blr
      .long    0
      .byte    0,12,0x14,0,0,0,0,0

.align 5
_aesp8_xts_decrypt6x:
 $STU  $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
 mflr  r0
 li  r7,`$FRAME+8*16+15`
 li  r8,`$FRAME+8*16+31`
 $PUSH  r0,`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
 stvx  v20,r7,$sp  # ABI says so
 addi  r7,r7,32
 stvx  v21,r8,$sp
 addi  r8,r8,32
 stvx  v22,r7,$sp
 addi  r7,r7,32
 stvx  v23,r8,$sp
 addi  r8,r8,32
 stvx  v24,r7,$sp
 addi  r7,r7,32
```

```
 stvx  v25,r8,$sp
 addi  r8,r8,32
 stvx  v26,r7,$sp
 addi  r7,r7,32
 stvx  v27,r8,$sp
 addi  r8,r8,32
 stvx  v28,r7,$sp
 addi  r7,r7,32
 stvx  v29,r8,$sp
 addi  r8,r8,32
 stvx  v30,r7,$sp
 stvx  v31,r8,$sp
 mr  r7,r0
 li  r0,-1
 stw  $vrsave,`$FRAME+21*16-4`($sp) #
 save vrsave
 li  $x10,0x10
 $PUSH  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 li  $x20,0x20
 $PUSH  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 li  $x30,0x30
 $PUSH  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 li  $x40,0x40
 $PUSH  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 li  $x50,0x50
 $PUSH  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 li  $x60,0x60
 $PUSH  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 li  $x70,0x70
 mtspr  256,r0

 subi  $rounds,$rounds,3 # -4 in total

 lvx  $rndkey0,$x00,$key1 # load key schedule
 lvx  v30,$x10,$key1
 addi  $key1,$key1,0x20
 lvx  v31,$x00,$key1
 ?vperm  $rndkey0,$rndkey0,v30,$keyperm
 addi  $key_,$sp,$FRAME+15
 mtctr  $rounds

Load_xts_dec_key:
 ?vperm  v24,v30,v31,$keyperm
 lvx  v30,$x10,$key1
 addi  $key1,$key1,0x20
 stvx  v24,$x00,$key_  # off-load round[1]
 ?vperm  v25,v31,v30,$keyperm
 lvx  v31,$x00,$key1
```

```
stvx  v25,$x10,$key_  #
off-load round[2]
addi  $key_,$key_,0x20
bdnz  Load_xts_dec_key

lvx  v26,$x10,$key1
?vperm  v24,v30,v31,$keyperm
lvx  v27,$x20,$key1
stvx  v24,$x00,$key_  # off-load round[3]
?vperm  v25,v31,v26,$keyperm
lvx  v28,$x30,$key1
stvx  v25,$x10,$key_  # off-load round[4]
addi  $key_,$sp,$FRAME+15 # rewind $key_
?vperm  v26,v26,v27,$keyperm
lvx  v29,$x40,$key1
?vperm  v27,v27,v28,$keyperm
lvx  v30,$x50,$key1
?vperm  v28,v28,v29,$keyperm
lvx  v31,$x60,$key1
?vperm  v29,v29,v30,$keyperm
lvx  $twk5,$x70,$key1 # borrow $twk5
?vperm  v30,v30,v31,$keyperm
lvx  v24,$x00,$key_  # pre-load round[1]
?vperm  v31,v31,$twk5,$keyperm
lvx  v25,$x10,$key_  # pre-load round[2]

 vperm  $in0,$inout,$inptail,$inpperm
 subi  $inp,$inp,31  # undo "caller"
vxor  $twk0,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
vand  $tmp,$tmp,$eighty7
 vxor  $out0,$in0,$twk0
vxor  $tweak,$tweak,$tmp


lvx_u  $in1,$x10,$inp
vxor  $twk1,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in1,$in1,$in1,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out1,$in1,$twk1
vxor  $tweak,$tweak,$tmp

 lvx_u  $in2,$x20,$inp
```

```
 andi.  $taillen,$len,15
vxor  $twk2,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in2,$in2,$in2,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out2,$in2,$twk2
vxor  $tweak,$tweak,$tmp

 lvx_u  $in3,$x30,$inp
 sub  $len,$len,$taillen
vxor  $twk3,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in3,$in3,$in3,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out3,$in3,$twk3
vxor  $tweak,$tweak,$tmp

 lvx_u  $in4,$x40,$inp
 subi  $len,$len,0x60
vxor  $twk4,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15

le?vperm $in4,$in4,$in4,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out4,$in4,$twk4
vxor  $tweak,$tweak,$tmp

 lvx_u  $in5,$x50,$inp
 addi  $inp,$inp,0x60
vxor  $twk5,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in5,$in5,$in5,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out5,$in5,$twk5
vxor  $tweak,$tweak,$tmp

vxor  v31,v31,$rndkey0
mtctr  $rounds
b  Loop_xts_dec6x
```

```
.align 5
Loop_xts_dec6x:
 vncipher $out0,$out0,v24
 vncipher $out1,$out1,v24
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
 vncipher $out4,$out4,v24
 vncipher $out5,$out5,v24
 lvx  v24,$x20,$key_  # round[3]
 addi  $key_,$key_,0x20

 vncipher $out0,$out0,v25
 vncipher $out1,$out1,v25
 vncipher $out2,$out2,v25
 vncipher $out3,$out3,v25
 vncipher $out4,$out4,v25
 vncipher $out5,$out5,v25
 lvx  v25,$x10,$key_  # round[4]
 bdnz  Loop_xts_dec6x

 subic  $len,$len,96  # $len-=96

 vxor  $in0,$twk0,v31  # xor with last round key
 vncipher $out0,$out0,v24
 vncipher $out1,$out1,v24
  vsrab  $tmp,$tweak,$seven # next tweak value
  vxor  $twk0,$tweak,$rndkey0
  vaddubm $tweak,$tweak,$tweak
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
  vsldoi  $tmp,$tmp,$tmp,15
 vncipher $out4,$out4,v24
 vncipher $out5,$out5,v24

 subfe.  r0,r0,r0  # borrow?-1:0
  vand  $tmp,$tmp,$eighty7
 vncipher $out0,$out0,v25
 vncipher $out1,$out1,v25
  vxor  $tweak,$tweak,$tmp
 vncipher $out2,$out2,v25
 vncipher $out3,$out3,v25
  vxor  $in1,$twk1,v31
  vsrab  $tmp,$tweak,$seven # next tweak value
  vxor  $twk1,$tweak,$rndkey0
 vncipher $out4,$out4,v25
 vncipher $out5,$out5,v25

 and  r0,r0,$len
```

```
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
 vand  $tmp,$tmp,$eighty7
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
 vxor  $tweak,$tweak,$tmp
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26

add  $inp,$inp,r0  # $inp
is adjusted in such
    # way that at exit from the
    # loop inX-in5 are loaded
    # with last "words"
 vxor  $in2,$twk2,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk2,$tweak,$rndkey0
 vaddubm $tweak,$tweak,$tweak
vncipher $out0,$out0,v27
vncipher $out1,$out1,v27
 vsldoi  $tmp,$tmp,$tmp,15
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
 vand  $tmp,$tmp,$eighty7
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27

addi  $key_,$sp,$FRAME+15 # rewind $key_
 vxor  $tweak,$tweak,$tmp
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
 vxor  $in3,$twk3,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk3,$tweak,$rndkey0
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
lvx  v24,$x00,$key_  # re-pre-load round[1]
 vand  $tmp,$tmp,$eighty7

vncipher $out0,$out0,v29
vncipher $out1,$out1,v29
 vxor  $tweak,$tweak,$tmp
```

```
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29

vxor  $in4,$twk4,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk4,$tweak,$rndkey0
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
lvx  v25,$x10,$key_  # re-pre-load round[2]
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15

vncipher $out0,$out0,v30
vncipher $out1,$out1,v30
 vand  $tmp,$tmp,$eighty7
vncipher $out2,$out2,v30
vncipher $out3,$out3,v30
 vxor  $tweak,$tweak,$tmp
vncipher $out4,$out4,v30
vncipher $out5,$out5,v30
 vxor  $in5,$twk5,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk5,$tweak,$rndkey0

vncipherlast $out0,$out0,$in0
 lvx_u  $in0,$x00,$inp  # load next input block
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vncipherlast $out1,$out1,$in1
 lvx_u  $in1,$x10,$inp
vncipherlast $out2,$out2,$in2
 le?vperm $in0,$in0,$in0,$leperm
 lvx_u  $in2,$x20,$inp
 vand  $tmp,$tmp,$eighty7
vncipherlast $out3,$out3,$in3
 le?vperm $in1,$in1,$in1,$leperm
 lvx_u  $in3,$x30,$inp
vncipherlast $out4,$out4,$in4

le?vperm $in2,$in2,$in2,$leperm
 lvx_u  $in4,$x40,$inp
 vxor  $tweak,$tweak,$tmp
vncipherlast $out5,$out5,$in5
 le?vperm $in3,$in3,$in3,$leperm
 lvx_u  $in5,$x50,$inp
 addi  $inp,$inp,0x60
 le?vperm $in4,$in4,$in4,$leperm
 le?vperm $in5,$in5,$in5,$leperm
```

```
 le?vperm $out0,$out0,$out0,$leperm
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
  vxor  $out0,$in0,$twk0
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
  vxor  $out1,$in1,$twk1
 le?vperm $out3,$out3,$out3,$leperm
 stvx_u  $out2,$x20,$out
  vxor  $out2,$in2,$twk2
 le?vperm $out4,$out4,$out4,$leperm
 stvx_u  $out3,$x30,$out
  vxor  $out3,$in3,$twk3
 le?vperm $out5,$out5,$out5,$leperm
 stvx_u  $out4,$x40,$out
  vxor  $out4,$in4,$twk4
 stvx_u  $out5,$x50,$out
  vxor  $out5,$in5,$twk5
 addi  $out,$out,0x60

 mtctr  $rounds
 beq  Loop_xts_dec6x  # did $len-=96 borrow?

 addic.  $len,$len,0x60
 beq  Lxts_dec6x_zero
 cmpwi  $len,0x20
 blt  Lxts_dec6x_one
 nop
 beq  Lxts_dec6x_two
 cmpwi  $len,0x40
 blt  Lxts_dec6x_three
 nop
 beq  Lxts_dec6x_four

Lxts_dec6x_five:
 vxor  $out0,$in1,$twk0
 vxor  $out1,$in2,$twk1
 vxor  $out2,$in3,$twk2
 vxor  $out3,$in4,$twk3
 vxor  $out4,$in5,$twk4

 bl  _aesp8_xts_dec5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk5  #
 unused tweak
 vxor  $twk1,$tweak,$rndkey0
```

```
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 vxor  $out0,$in0,$twk1
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$leperm
 stvx_u  $out2,$x20,$out
 le?vperm $out4,$out4,$out4,$leperm
 stvx_u  $out3,$x30,$out
 stvx_u  $out4,$x40,$out
 addi  $out,$out,0x50
 bne  Lxts_dec6x_steal
 b  Lxts_dec6x_done

.align 4
Lxts_dec6x_four:
 vxor  $out0,$in2,$twk0
 vxor  $out1,$in3,$twk1
 vxor  $out2,$in4,$twk2
 vxor  $out3,$in5,$twk3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_dec5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk4  # unused tweak
 vmr  $twk1,$twk5
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  #
 store output
 vxor  $out0,$in0,$twk5
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$leperm
 stvx_u  $out2,$x20,$out
 stvx_u  $out3,$x30,$out
 addi  $out,$out,0x40
 bne  Lxts_dec6x_steal
 b  Lxts_dec6x_done

.align 4
Lxts_dec6x_three:
 vxor  $out0,$in3,$twk0
 vxor  $out1,$in4,$twk1
 vxor  $out2,$in5,$twk2
 vxor  $out3,$out3,$out3
 vxor  $out4,$out4,$out4
```

```
 bl  _aesp8_xts_dec5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk3  # unused tweak
 vmr  $twk1,$twk4
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 vxor  $out0,$in0,$twk4
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 stvx_u  $out2,$x20,$out
 addi  $out,$out,0x30
 bne  Lxts_dec6x_steal
 b  Lxts_dec6x_done

.align 4
Lxts_dec6x_two:
 vxor  $out0,$in4,$twk0
 vxor  $out1,$in5,$twk1
 vxor  $out2,$out2,$out2
 vxor  $out3,$out3,$out3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_dec5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk2  #
 unused tweak
 vmr  $twk1,$twk3
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 vxor  $out0,$in0,$twk3
 stvx_u  $out1,$x10,$out
 addi  $out,$out,0x20
 bne  Lxts_dec6x_steal
 b  Lxts_dec6x_done

.align 4
Lxts_dec6x_one:
 vxor  $out0,$in5,$twk0
 nop
Loop_xts_dec1x:
 vncipher $out0,$out0,v24
 lvx  v24,$x20,$key_  # round[3]
 addi  $key_,$key_,0x20

 vncipher $out0,$out0,v25
 lvx  v25,$x10,$key_  # round[4]
```

```
 bdnz  Loop_xts_dec1x

 subi  r0,$taillen,1
 vncipher $out0,$out0,v24

 andi.  r0,r0,16
 cmpwi  $taillen,0
 vncipher $out0,$out0,v25

 sub  $inp,$inp,r0
 vncipher $out0,$out0,v26

 lvx_u  $in0,0,$inp
 vncipher $out0,$out0,v27

 addi  $key_,$sp,$FRAME+15 # rewind $key_
 vncipher $out0,$out0,v28
 lvx  v24,$x00,$key_  # re-pre-load round[1]

 vncipher $out0,$out0,v29
 lvx  v25,$x10,$key_  # re-pre-load round[2]
  vxor  $twk0,$twk0,v31

 le?vperm $in0,$in0,$in0,$leperm
 vncipher $out0,$out0,v30

 mtctr  $rounds
 vncipherlast $out0,$out0,$twk0

 vmr  $twk0,$twk1  #
 unused tweak
 vmr  $twk1,$twk2
 le?vperm $out0,$out0,$out0,$leperm
 stvx_u  $out0,$x00,$out  # store output
 addi  $out,$out,0x10
 vxor  $out0,$in0,$twk2
 bne  Lxts_dec6x_steal
 b  Lxts_dec6x_done

.align 4
Lxts_dec6x_zero:
 cmpwi  $taillen,0
 beq  Lxts_dec6x_done

 lvx_u  $in0,0,$inp
 le?vperm $in0,$in0,$in0,$leperm
 vxor  $out0,$in0,$twk1
Lxts_dec6x_steal:
```

```
vncipher $out0,$out0,v24
lvx  v24,$x20,$key_  # round[3]
addi  $key_,$key_,0x20

vncipher $out0,$out0,v25
lvx  v25,$x10,$key_  # round[4]
bdnz  Lxts_dec6x_steal

add  $inp,$inp,$taillen
vncipher $out0,$out0,v24

cmpwi  $taillen,0
vncipher $out0,$out0,v25

lvx_u  $in0,0,$inp
vncipher $out0,$out0,v26

lvsr  $inpperm,0,$taillen # $in5 is no more
vncipher $out0,$out0,v27

addi  $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
lvx  v24,$x00,$key_  # re-pre-load round[1]

vncipher $out0,$out0,v29
lvx  v25,$x10,$key_  # re-pre-load round[2]
 vxor  $twk1,$twk1,v31

le?vperm $in0,$in0,$in0,$leperm
vncipher $out0,$out0,v30

vperm  $in0,$in0,$in0,$inpperm
vncipherlast $tmp,$out0,$twk1

le?vperm $out0,$tmp,$tmp,$leperm
le?stvx_u $out0,0,$out
be?stvx_u $tmp,0,$out

vxor  $out0,$out0,$out0
vspltisb $out1,-1
vperm  $out0,$out0,$out1,$inpperm
vsel  $out0,$in0,$tmp,$out0
vxor  $out0,$out0,$twk0

subi  r3,$out,1
mtctr  $taillen
Loop_xts_dec6x_steal:
lbzu  r0,1(r3)
```

```
 stb  r0,16(r3)
 bdnz  Loop_xts_dec6x_steal

 li  $taillen,0
 mtctr  $rounds
 b  Loop_xts_dec1x  #
 one more time...

.align 4
Lxts_dec6x_done:
 mtlr  r7
 li  r10,`$FRAME+15`
 li  r11,`$FRAME+31`
 stvx  $seven,r10,$sp  # wipe copies of round keys
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32

 mtspr  256,$vrsave
 lvx  v20,r10,$sp  #
 ABI says so
 addi  r10,r10,32
 lvx  v21,r11,$sp
 addi  r11,r11,32
 lvx  v22,r10,$sp
 addi  r10,r10,32
 lvx  v23,r11,$sp
 addi  r11,r11,32
 lvx  v24,r10,$sp
 addi  r10,r10,32
 lvx  v25,r11,$sp
 addi  r11,r11,32
 lvx  v26,r10,$sp
 addi  r10,r10,32
 lvx  v27,r11,$sp
 addi  r11,r11,32
```

```
 lvx  v28,r10,$sp
 addi  r10,r10,32
 lvx  v29,r11,$sp
 addi  r11,r11,32
 lvx  v30,r10,$sp
 lvx  v31,r11,$sp
 $POP  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 $POP  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 $POP  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 $POP  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 $POP  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 $POP  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 addi  $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
 blr
 .long  0
 .byte  0,12,0x04,1,0x80,6,6,0
 .long  0

.align 5
_aesp8_xts_dec5x:
 vncipher $out0,$out0,v24
 vncipher $out1,$out1,v24
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
 vncipher $out4,$out4,v24
 lvx  v24,$x20,$key_  # round[3]
 addi  $key_,$key_,0x20

 vncipher $out0,$out0,v25
 vncipher $out1,$out1,v25
 vncipher $out2,$out2,v25
 vncipher $out3,$out3,v25
 vncipher $out4,$out4,v25
 lvx  v25,$x10,$key_  #
 round[4]
 bdnz  _aesp8_xts_dec5x

 subi  r0,$taillen,1
 vncipher $out0,$out0,v24
 vncipher $out1,$out1,v24
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
 vncipher $out4,$out4,v24

 andi.  r0,r0,16
 cmpwi  $taillen,0
 vncipher $out0,$out0,v25
 vncipher $out1,$out1,v25
```

```
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
 vxor  $twk0,$twk0,v31

sub  $inp,$inp,r0
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
 vxor  $in1,$twk1,v31

vncipher $out0,$out0,v27
lvx_u  $in0,0,$inp
vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
 vxor  $in2,$twk2,v31

addi  $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
lvx  v24,$x00,$key_  #
re-pre-load round[1]
 vxor  $in3,$twk3,v31

vncipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$leperm
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
lvx  v25,$x10,$key_  # re-pre-load round[2]
 vxor  $in4,$twk4,v31

vncipher $out0,$out0,v30
vncipher $out1,$out1,v30
vncipher $out2,$out2,v30
vncipher $out3,$out3,v30
vncipher $out4,$out4,v30

vncipherlast $out0,$out0,$twk0
vncipherlast $out1,$out1,$in1
```

```
 vncipherlast $out2,$out2,$in2
 vncipherlast $out3,$out3,$in3
 vncipherlast $out4,$out4,$in4
 mtctr  $rounds
 blr
      .long    0
      .byte    0,12,0x14,0,0,0,0,0
___
}} }}}

my $consts=1;
foreach(split("\n",$code)) {
      s/\`([^\`]*)\`/eval($1)/geo;

 # constants table endian-specific conversion
 if ($consts && m/\.(long|byte)\s+(.+)\s+(\?[a-z]*)$/o) {
    my $conv=$3;
    my @bytes=();

    # convert to endian-agnostic format
    if ($1 eq "long") {
      foreach (split(/,\s*/,$2))
 {
 my $l = /^0/?oct:int;
 push @bytes,($l>>24)&0xff,($l>>16)&0xff,($l>>8)&0xff,$l&0xff;
      }
    } else {
 @bytes = map(/^0/?oct:int,split(/,\s*/,$2));
    }

    # little-endian conversion
    if ($flavour =~ /le$/o) {
 SWITCH: for($conv)  {
     /\?inv/ && do   { @bytes=map($_^0xf,@bytes); last; };
     /\?rev/ && do   { @bytes=reverse(@bytes);    last; };
 }
    }

    #emit
    print ".byte\t",join(',',map (sprintf("0x%02x",$_),@bytes)),"\n";
    next;
}
$consts=0 if (m/Lconsts:/o); # end of table

# instructions prefixed with '?' are endian-specific and need
# to be adjusted accordingly...
if ($flavour =~ /le$/o) { # little-endian
    s/le\?//o  or
```

```
    s/be\?/#be#/o or
    s/\?lvsr/lvsl/o or
    s/\?lvsl/lvsr/o or
    s/\?(vperm\s+v[0-9]+,\s*)(v[0-9]+,\s*)(v[0-9]+,\s*)(v[0-9]+)/$1$3$2$4/o or
    s/\?(vsldoi\s+v[0-9]+,\s*)(v[0-9]+,)\s*(v[0-9]+,\s*)([0-9]+)/$1$3$2 16-$4/o or
    s/\?(vspltw\s+v[0-9]+,\s*)(v[0-9]+,)\s*([0-9])/$1$2 3-$3/o;
 }
 else {    # big-endian
    s/le\?/#le#/o or
    s/be\?//o  or
    s/\?([a-z]+)/$1/o;
 }

      print $_,"\n";
}

close STDOUT;
```

Found in path(s):
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesp8-ppc.pl
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*
*/

#define FIPS_AUTH_KEY "etaonrishdlcupfm"
#define FIPS_AUTH_CRYPTO_OFFICER "7f92562d409c903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTO_USER "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"

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```
#!/usr/bin/env perl

# ====================================================================
# Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================

# I let hardware handle unaligned input(*), except on page boundaries
# (see below for details). Otherwise straightforward implementation
# with X vector in register bank. The module is big-endian [which is
# not big deal as there're no little-endian targets left around].
#
# (*) this means that this module is inappropriate for PPC403? Does
#     anybody know if pre-POWER3 can sustain unaligned load?

#    -m64 -m32
# ----------------------------------
# PPC970,gcc-4.0.0 +76% +59%
# Power6,xlc-7  +68% +33%

$flavour
 = shift;

if ($flavour =~ /64/) {
 $SIZE_T =8;
 $LRSAVE =2*$SIZE_T;
 $UCMP ="cmpld";
 $STU ="stdu";
 $POP ="ld";
 $PUSH ="std";
} elsif ($flavour =~ /32/) {
 $SIZE_T =4;
 $LRSAVE =$SIZE_T;
 $UCMP ="cmplw";
 $STU ="stwu";
```

```
 $POP ="lwz";
 $PUSH ="stw";
} else { die "nonsense $flavour"; }

$0 =~ m/(.*[\/\\])[^\/\\]+$/; $dir=$1;
( $xlate="${dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="${dir}../../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| $^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=24*$SIZE_T+64;
$LOCALS=6*$SIZE_T;

$K  ="r0";
$sp ="r1";
$toc="r2";
$ctx="r3";
$inp="r4";
$num="r5";
$t0 ="r15";
$t1 ="r6";

$A  ="r7";
$B  ="r8";
$C  ="r9";
$D  ="r10";
$E  ="r11";
$T  ="r12";

@V=($A,$B,$C,$D,$E,$T);
@X=("r16","r17","r18","r19","r20","r21","r22","r23",
   "r24","r25","r26","r27","r28","r29","r30","r31");

sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___ if ($i==0);
 lwz @X[$i],`$i*4`($inp)
___
$code.=<<___
 if ($i<15);
 lwz @X[$j],`$j*4`($inp)
 add $f,$K,$e
 rotlwi $e,$a,5
 add $f,$f,@X[$i]
 and $t0,$c,$b
 add $f,$f,$e
```

```
 andc $t1,$d,$b
 rotlwi $b,$b,30
 or $t0,$t0,$t1
 add $f,$f,$t0
___
$code.=<<___ if ($i>=15);
 add $f,$K,$e
 rotlwi $e,$a,5
 xor @X[$j%16],@X[$j%16],@X[($j+2)%16]
 add $f,$f,@X[$i%16]
 and $t0,$c,$b
 xor @X[$j%16],@X[$j%16],@X[($j+8)%16]
 add $f,$f,$e
 andc $t1,$d,$b
 rotlwi $b,$b,30
 or $t0,$t0,$t1
 xor @X[$j%16],@X[$j%16],@X[($j+13)%16]
 add $f,$f,$t0
 rotlwi @X[$j%16],@X[$j%16],1
___
}

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___ if ($i<79);
 add $f,$K,$e
 rotlwi $e,$a,5
 xor @X[$j%16],@X[$j%16],@X[($j+2)%16]
 add $f,$f,@X[$i%16]
 xor $t0,$b,$c
 xor @X[$j%16],@X[$j%16],@X[($j+8)%16]
 add $f,$f,$e
 rotlwi $b,$b,30
 xor $t0,$t0,$d
 xor @X[$j%16],@X[$j%16],@X[($j+13)%16]
 add $f,$f,$t0
 rotlwi @X[$j%16],@X[$j%16],1
___
$code.=<<___ if ($i==79);
 add $f,$K,$e
 rotlwi $e,$a,5
 lwz r16,0($ctx)
 add $f,$f,@X[$i%16]
 xor $t0,$b,$c
 lwz r17,4($ctx)
 add $f,$f,$e
 rotlwi $b,$b,30
```

```
 lwz r18,8($ctx)
 xor $t0,$t0,$d
 lwz r19,12($ctx)
 add $f,$f,$t0
 lwz r20,16($ctx)
___
}

sub
 BODY_40_59 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___;
 add $f,$K,$e
 rotlwi $e,$a,5
 xor @X[$j%16],@X[$j%16],@X[($j+2)%16]
 add $f,$f,@X[$i%16]
 and $t0,$b,$c
 xor @X[$j%16],@X[$j%16],@X[($j+8)%16]
 add $f,$f,$e
 or $t1,$b,$c
 rotlwi $b,$b,30
 xor @X[$j%16],@X[$j%16],@X[($j+13)%16]
 and $t1,$t1,$d
 or $t0,$t0,$t1
 rotlwi @X[$j%16],@X[$j%16],1
 add $f,$f,$t0
___
}

$code=<<___;
.machine "any"
.text

.globl .sha1_block_data_order
.align 4
.sha1_block_data_order:
 $STU $sp,-$FRAME($sp)
 mflr r0
 $PUSH r15,`$FRAME-$SIZE_T*17`($sp)
 $PUSH r16,`$FRAME-$SIZE_T*16`($sp)
 $PUSH r17,`$FRAME-$SIZE_T*15`($sp)
 $PUSH r18,`$FRAME-$SIZE_T*14`($sp)
 $PUSH r19,`$FRAME-$SIZE_T*13`($sp)
 $PUSH r20,`$FRAME-$SIZE_T*12`($sp)
 $PUSH r21,`$FRAME-$SIZE_T*11`($sp)
 $PUSH r22,`$FRAME-$SIZE_T*10`($sp)
 $PUSH r23,`$FRAME-$SIZE_T*9`($sp)
```

```
 $PUSH r24,`$FRAME-$SIZE_T*8`($sp)
 $PUSH r25,`$FRAME-$SIZE_T*7`($sp)
 $PUSH r26,`$FRAME-$SIZE_T*6`($sp)
 $PUSH r27,`$FRAME-$SIZE_T*5`($sp)
 $PUSH r28,`$FRAME-$SIZE_T*4`($sp)
 $PUSH r29,`$FRAME-$SIZE_T*3`($sp)
 $PUSH r30,`$FRAME-$SIZE_T*2`($sp)
 $PUSH r31,`$FRAME-$SIZE_T*1`($sp)
 $PUSH r0,`$FRAME+$LRSAVE`($sp)
 lwz $A,0($ctx)
 lwz $B,4($ctx)
 lwz $C,8($ctx)
 lwz $D,12($ctx)
 lwz $E,16($ctx)
 andi. r0,$inp,3
 bne Lunaligned
Laligned:
 mtctr $num
 bl Lsha1_block_private
 b Ldone

;
 PowerPC specification allows an implementation to be ill-behaved
; upon unaligned access which crosses page boundary. "Better safe
; than sorry" principle makes me treat it specially. But I don't
; look for particular offending word, but rather for 64-byte input
; block which crosses the boundary. Once found that block is aligned
; and hashed separately...
.align 4
Lunaligned:
 subfic $t1,$inp,4096
 andi. $t1,$t1,4095 ; distance to closest page boundary
 srwi. $t1,$t1,6 ; t1/=64
 beq Lcross_page
 $UCMP $num,$t1
 ble Laligned ; didn't
 cross the page boundary
 mtctr $t1
 subfc $num,$t1,$num
 bl Lsha1_block_private
Lcross_page:
 li $t1,16
 mtctr $t1
 addi r20,$sp,$LOCALS ; spot within the frame
Lmemcpy:
 lbz r16,0($inp)
 lbz r17,1($inp)
 lbz r18,2($inp)
```

```
 lbz r19,3($inp)
 addi $inp,$inp,4
 stb r16,0(r20)
 stb r17,1(r20)
 stb r18,2(r20)
 stb r19,3(r20)
 addi r20,r20,4
 bdnz Lmemcpy

 $PUSH $inp,`$FRAME-$SIZE_T*18`($sp)
 li $t1,1
 addi $inp,$sp,$LOCALS
 mtctr $t1
 bl Lsha1_block_private
 $POP $inp,`$FRAME-$SIZE_T*18`($sp)
 addic. $num,$num,-1
 bne Lunaligned

Ldone:
 $POP r0,`$FRAME+$LRSAVE`($sp)
 $POP r15,`$FRAME-$SIZE_T*17`($sp)
 $POP r16,`$FRAME-$SIZE_T*16`($sp)
 $POP r17,`$FRAME-$SIZE_T*15`($sp)
 $POP r18,`$FRAME-$SIZE_T*14`($sp)
 $POP r19,`$FRAME-$SIZE_T*13`($sp)
 $POP r20,`$FRAME-$SIZE_T*12`($sp)
 $POP r21,`$FRAME-$SIZE_T*11`($sp)
 $POP r22,`$FRAME-$SIZE_T*10`($sp)
 $POP r23,`$FRAME-$SIZE_T*9`($sp)
 $POP r24,`$FRAME-$SIZE_T*8`($sp)
 $POP r25,`$FRAME-$SIZE_T*7`($sp)
 $POP r26,`$FRAME-$SIZE_T*6`($sp)
 $POP r27,`$FRAME-$SIZE_T*5`($sp)
 $POP r28,`$FRAME-$SIZE_T*4`($sp)
 $POP r29,`$FRAME-$SIZE_T*3`($sp)
 $POP r30,`$FRAME-$SIZE_T*2`($sp)
 $POP r31,`$FRAME-$SIZE_T*1`($sp)
 mtlr r0
 addi $sp,$sp,$FRAME
 blr
 .long 0
 .byte 0,12,4,1,0x80,18,3,0
 .long 0
___

#
 This is private block function, which uses tailored calling
# interface, namely upon entry SHA_CTX is pre-loaded to given
```

```
# registers and counter register contains amount of chunks to
# digest...
$code.=<<___;
.align 4
Lsha1_block_private:

___
$code.=<<___; # load K_00_19
 lis $K,0x5a82
 ori $K,$K,0x7999

___
for($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$code.=<<___; # load K_20_39
 lis $K,0x6ed9
 ori $K,$K,0xeba1

___
for(;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<___; # load K_40_59
 lis $K,0x8f1b
 ori $K,$K,0xbcdc

___
for(;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<___; # load K_60_79
 lis $K,0xca62
 ori $K,$K,0xc1d6

___
for(;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V));
 }
$code.=<<___;
 add r16,r16,$E
 add r17,r17,$T
 add r18,r18,$A
 add r19,r19,$B
 add r20,r20,$C
 stw r16,0($ctx)
 mr $A,r16
 stw r17,4($ctx)
 mr $B,r17
 stw r18,8($ctx)
 mr $C,r18
 stw r19,12($ctx)
 mr $D,r19
 stw r20,16($ctx)
 mr $E,r20
 addi $inp,$inp,`16*4`
 bdnz Lsha1_block_private
 blr
 .long 0
 .byte 0,12,0x14,0,0,0,0,0
```

```
___
$code.=<<___;
.asciz "SHA1 block transform for PPC, CRYPTOGAMS by <appro\@fy.chalmers.se>"
___

$code =~ s/\`([^\`]*)\`/eval $1/gem;
print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/aes.h
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```
#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# GHASH for for PowerISA v2.07.
#
# July 2014
#
# Accurate performance measurements are problematic, because it's
# always virtualized setup with possibly throttled processor.
# Relative comparison is therefore more informative. This initial
# version is ~2.1x slower than hardware-assisted AES-128-CTR, ~12x
# faster than "4-bit" integer-only compiler-generated 64-bit code.
# "Initial version" means that there is room for futher improvement.

# May 2016
#
# 2x aggregated reduction improves performance by
 50% (resulting
# performance on POWER8 is 1 cycle per processed byte), and 4x
# aggregated reduction - by 170% or 2.7x (resulting in 0.55 cpb).

$flavour=shift;
$output =shift;

if ($flavour =~ /64/) {
 $SIZE_T=8;
 $LRSAVE=2*$SIZE_T;
 $STU="stdu";
 $POP="ld";
 $PUSH="std";
 $UCMP="cmpld";
```

```
 $SHRI="srdi";
} elsif ($flavour =~ /32/) {
 $SIZE_T=4;
 $LRSAVE=$SIZE_T;
 $STU="stwu";
 $POP="lwz";
 $PUSH="stw";
 $UCMP="cmplw";
 $SHRI="srwi";
} else { die "nonsense $flavour"; }

$sp="r1";
$FRAME=6*$SIZE_T+13*16; # 13*16 is for v20-v31 offload

$0 =~ m/(.*[\/\\])[^\/\\]+$/; $dir=$1;
( $xlate="${dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="${dir}../../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| $^X $xlate $flavour $output" || die "can't call $xlate: $!";

my ($Xip,$Htbl,$inp,$len)=map("r$_",(3..6)); # argument block

my ($Xl,$Xm,$Xh,$IN)=map("v$_",(0..3));
my ($zero,$t0,$t1,$t2,$xC2,$H,$Hh,$Hl,$lemask)=map("v$_",(4..12));
my ($Xl1,$Xm1,$Xh1,$IN1,$H2,$H2h,$H2l)=map("v$_",(13..19));
my
 $vrsave="r12";

$code=<<___;
.machine "any"

.text

.globl .gcm_init_p8
.align 5
.gcm_init_p8:
 li  r0,-4096
 li  r8,0x10
 mfspr  $vrsave,256
 li  r9,0x20
 mtspr  256,r0
 li  r10,0x30
 lvx_u  $H,0,r4   # load H

 vspltisb $xC2,-16  # 0xf0
 vspltisb $t0,1   # one
 vaddubm  $xC2,$xC2,$xC2  # 0xe0
```

```
vxor  $zero,$zero,$zero
vor  $xC2,$xC2,$t0  # 0xe1
vsldoi  $xC2,$xC2,$zero,15 # 0xe1...
vsldoi  $t1,$zero,$t0,1  # ...1
vaddubm  $xC2,$xC2,$xC2  # 0xc2...
vspltisb $t2,7
vor  $xC2,$xC2,$t1  # 0xc2....01
vspltb  $t1,$H,0  # most significant byte
vsl  $H,$H,$t0  # H<<=1
vsrab  $t1,$t1,$t2  # broadcast carry bit
vand  $t1,$t1,$xC2
vxor  $IN,$H,$t1  # twisted H

vsldoi  $H,$IN,$IN,8  # twist even more ...
vsldoi  $xC2,$zero,$xC2,8 # 0xc2.0
vsldoi  $Hl,$zero,$H,8  # ... and split
vsldoi  $Hh,$H,$zero,8

stvx_u  $xC2,0,r3  # save pre-computed table
stvx_u  $Hl,r8,r3
li  r8,0x40
stvx_u  $H, r9,r3
li  r9,0x50
stvx_u  $Hh,r10,r3
li  r10,0x60

vpmsumd  $Xl,$IN,$Hl  #
H.loH.lo
vpmsumd  $Xm,$IN,$H  # H.hiH.lo+H.loH.hi
vpmsumd  $Xh,$IN,$Hh  # H.hiH.hi

vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase

vsldoi  $t0,$Xm,$zero,8
vsldoi  $t1,$zero,$Xm,8
vxor  $Xl,$Xl,$t0
vxor  $Xh,$Xh,$t1

vsldoi  $Xl,$Xl,$Xl,8
vxor  $Xl,$Xl,$t2

vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
vpmsumd  $Xl,$Xl,$xC2
vxor  $t1,$t1,$Xh
vxor  $IN1,$Xl,$t1

vsldoi  $H2,$IN1,$IN1,8
vsldoi  $H2l,$zero,$H2,8
```

```
 vsldoi  $H2h,$H2,$zero,8

 stvx_u  $H2l,r8,r3  # save H^2
 li  r8,0x70
 stvx_u  $H2,r9,r3
 li  r9,0x80
 stvx_u  $H2h,r10,r3
 li  r10,0x90
___
{
my ($t4,$t5,$t6) = ($Hl,$H,$Hh);
$code.=<<___;
 vpmsumd  $Xl,$IN,$H2l  # H.loH^2.lo
  vpmsumd $Xl1,$IN1,$H2l  # H^2.loH^2.lo
 vpmsumd  $Xm,$IN,$H2  # H.hiH^2.lo+H.loH^2.hi
  vpmsumd $Xm1,$IN1,$H2  # H^2.hiH^2.lo+H^2.loH^2.hi
 vpmsumd  $Xh,$IN,$H2h  # H.hiH^2.hi
  vpmsumd $Xh1,$IN1,$H2h  # H^2.hiH^2.hi

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase
  vpmsumd $t6,$Xl1,$xC2  # 1st reduction
 phase

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
  vsldoi  $t4,$Xm1,$zero,8
  vsldoi  $t5,$zero,$Xm1,8
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1
  vxor  $Xl1,$Xl1,$t4
  vxor  $Xh1,$Xh1,$t5

 vsldoi  $Xl,$Xl,$Xl,8
  vsldoi  $Xl1,$Xl1,$Xl1,8
 vxor  $Xl,$Xl,$t2
  vxor  $Xl1,$Xl1,$t6

 vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
  vsldoi  $t5,$Xl1,$Xl1,8  # 2nd reduction phase
 vpmsumd  $Xl,$Xl,$xC2
  vpmsumd $Xl1,$Xl1,$xC2
 vxor  $t1,$t1,$Xh
  vxor  $t5,$t5,$Xh1
 vxor  $Xl,$Xl,$t1
  vxor  $Xl1,$Xl1,$t5

 vsldoi  $H,$Xl,$Xl,8
  vsldoi  $H2,$Xl1,$Xl1,8
```

```
 vsldoi  $Hl,$zero,$H,8
 vsldoi  $Hh,$H,$zero,8
  vsldoi  $H2l,$zero,$H2,8
  vsldoi  $H2h,$H2,$zero,8

 stvx_u  $Hl,r8,r3  # save H^3
 li  r8,0xa0
 stvx_u  $H,r9,r3
 li  r9,0xb0
 stvx_u  $Hh,r10,r3
 li  r10,0xc0
  stvx_u  $H2l,r8,r3  # save H^4
  stvx_u  $H2,r9,r3
  stvx_u  $H2h,r10,r3

 mtspr  256,$vrsave
 blr
 .long  0
 .byte  0,12,0x14,0,0,0,2,0
 .long  0
.size .gcm_init_p8,.-.gcm_init_p8
___
}
$code.=<<___;
.globl .gcm_gmult_p8
.align 5
.gcm_gmult_p8:
 lis  r0,0xfff8
 li  r8,0x10
 mfspr  $vrsave,256
 li  r9,0x20
 mtspr  256,r0
 li  r10,0x30
 lvx_u  $IN,0,$Xip  #
 load Xi

 lvx_u  $Hl,r8,$Htbl  # load pre-computed table
  le?lvsl $lemask,r0,r0
 lvx_u  $H, r9,$Htbl
  le?vspltisb $t0,0x07
 lvx_u  $Hh,r10,$Htbl
  le?vxor $lemask,$lemask,$t0
 lvx_u  $xC2,0,$Htbl
  le?vperm $IN,$IN,$IN,$lemask
 vxor  $zero,$zero,$zero

 vpmsumd  $Xl,$IN,$Hl  # H.loXi.lo
 vpmsumd  $Xm,$IN,$H  # H.hiXi.lo+H.loXi.hi
```

```
 vpmsumd  $Xh,$IN,$Hh  # H.hiXi.hi

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1

 vsldoi  $Xl,$Xl,$Xl,8
 vxor  $Xl,$Xl,$t2

 vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
 vpmsumd  $Xl,$Xl,$xC2
 vxor  $t1,$t1,$Xh
 vxor  $Xl,$Xl,$t1

 le?vperm $Xl,$Xl,$Xl,$lemask
 stvx_u  $Xl,0,$Xip  # write out Xi

 mtspr  256,$vrsave
 blr
 .long  0
 .byte  0,12,0x14,0,0,0,2,0
 .long  0
.size .gcm_gmult_p8,.-.gcm_gmult_p8

.globl .gcm_ghash_p8
.align 5
.gcm_ghash_p8:
 li  r0,-4096
 li  r8,0x10
 mfspr  $vrsave,256
 li  r9,0x20
 mtspr  256,r0
 li  r10,0x30
 lvx_u  $Xl,0,$Xip  #
 load Xi

 lvx_u  $Hl,r8,$Htbl  # load pre-computed table
 li  r8,0x40
  le?lvsl $lemask,r0,r0
 lvx_u  $H, r9,$Htbl
 li  r9,0x50
  le?vspltisb $t0,0x07
 lvx_u  $Hh,r10,$Htbl
 li  r10,0x60
  le?vxor $lemask,$lemask,$t0
```

```
 lvx_u  $xC2,0,$Htbl
  le?vperm $Xl,$Xl,$Xl,$lemask
 vxor  $zero,$zero,$zero

 ${UCMP}i $len,64
 bge  Lgcm_ghash_p8_4x

 lvx_u  $IN,0,$inp
 addi  $inp,$inp,16
 subic.  $len,$len,16
  le?vperm $IN,$IN,$IN,$lemask
 vxor  $IN,$IN,$Xl
 beq  Lshort

 lvx_u  $H2l,r8,$Htbl  # load H^2
 li  r8,16
 lvx_u  $H2, r9,$Htbl
 add  r9,$inp,$len  # end of input
 lvx_u  $H2h,r10,$Htbl
 be?b  Loop_2x

.align 5
Loop_2x:
 lvx_u  $IN1,0,$inp
 le?vperm $IN1,$IN1,$IN1,$lemask

  subic  $len,$len,32
 vpmsumd  $Xl,$IN,$H2l  # H^2.loXi.lo
  vpmsumd $Xl1,$IN1,$Hl  # H.loXi+1.lo
  subfe  r0,r0,r0  # borrow?-1:0
 vpmsumd  $Xm,$IN,$H2  # H^2.hiXi.lo+H^2.loXi.hi

 vpmsumd $Xm1,$IN1,$H  # H.hiXi+1.lo+H.loXi+1.hi
  and  r0,r0,$len
 vpmsumd  $Xh,$IN,$H2h  # H^2.hiXi.hi
  vpmsumd $Xh1,$IN1,$Hh  # H.hiXi+1.hi
  add  $inp,$inp,r0

 vxor  $Xl,$Xl,$Xl1
 vxor  $Xm,$Xm,$Xm1

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
  vxor  $Xh,$Xh,$Xh1
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1
```

```
 vsldoi  $Xl,$Xl,$Xl,8
 vxor  $Xl,$Xl,$t2
  lvx_u  $IN,r8,$inp
  addi  $inp,$inp,32

 vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
 vpmsumd  $Xl,$Xl,$xC2
  le?vperm $IN,$IN,$IN,$lemask
 vxor  $t1,$t1,$Xh
 vxor  $IN,$IN,$t1
 vxor  $IN,$IN,$Xl
 $UCMP  r9,$inp
 bgt  Loop_2x   # done yet?

 cmplwi  $len,0
 bne  Leven

Lshort:
 vpmsumd  $Xl,$IN,$Hl  # H.loXi.lo
 vpmsumd  $Xm,$IN,$H  # H.hiXi.lo+H.loXi.hi
 vpmsumd  $Xh,$IN,$Hh  # H.hiXi.hi

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1

 vsldoi  $Xl,$Xl,$Xl,8
 vxor  $Xl,$Xl,$t2

 vsldoi  $t1,$Xl,$Xl,8  #
 2nd reduction phase
 vpmsumd  $Xl,$Xl,$xC2
 vxor  $t1,$t1,$Xh

Leven:
 vxor  $Xl,$Xl,$t1
 le?vperm $Xl,$Xl,$Xl,$lemask
 stvx_u  $Xl,0,$Xip  # write out Xi

 mtspr  256,$vrsave
 blr
 .long  0
 .byte  0,12,0x14,0,0,0,4,0
 .long  0
```

```
___
{
my ($Xl3,$Xm2,$IN2,$H3l,$H3,$H3h,
   $Xh3,$Xm3,$IN3,$H4l,$H4,$H4h) = map("v$_",(20..31));
my $IN0=$IN;
my ($H21l,$H21h,$loperm,$hiperm) = ($Hl,$Hh,$H2l,$H2h);

$code.=<<___;
.align 5
.gcm_ghash_p8_4x:
Lgcm_ghash_p8_4x:
 $STU  $sp,-$FRAME($sp)
 li  r10,`15+6*$SIZE_T`
 li  r11,`31+6*$SIZE_T`
 stvx  v20,r10,$sp
 addi  r10,r10,32
 stvx  v21,r11,$sp
 addi  r11,r11,32
 stvx  v22,r10,$sp
 addi  r10,r10,32
 stvx  v23,r11,$sp
 addi  r11,r11,32
 stvx  v24,r10,$sp
 addi  r10,r10,32
 stvx  v25,r11,$sp
 addi  r11,r11,32
 stvx  v26,r10,$sp
 addi  r10,r10,32
 stvx  v27,r11,$sp
 addi  r11,r11,32
 stvx  v28,r10,$sp
 addi  r10,r10,32
 stvx  v29,r11,$sp
 addi  r11,r11,32
 stvx  v30,r10,$sp
 li  r10,0x60
 stvx  v31,r11,$sp
 li  r0,-1
 stw  $vrsave,`$FRAME-4`($sp) #
 save vrsave
 mtspr  256,r0   # preserve all AltiVec registers

 lvsl  $t0,0,r8  # 0x0001..0e0f
 #lvx_u  $H2l,r8,$Htbl  # load H^2
 li  r8,0x70
 lvx_u  $H2, r9,$Htbl
 li  r9,0x80
 vspltisb $t1,8   # 0x0808..0808
```

```
#lvx_u  $H2h,r10,$Htbl
li  r10,0x90
lvx_u  $H3l,r8,$Htbl  # load H^3
li  r8,0xa0
lvx_u  $H3, r9,$Htbl
li  r9,0xb0
lvx_u  $H3h,r10,$Htbl
li  r10,0xc0
lvx_u  $H4l,r8,$Htbl  # load H^4
li  r8,0x10
lvx_u  $H4, r9,$Htbl
li  r9,0x20
lvx_u  $H4h,r10,$Htbl
li  r10,0x30

vsldoi  $t2,$zero,$t1,8  # 0x0000..0808
vaddubm  $hiperm,$t0,$t2  # 0x0001..1617
vaddubm  $loperm,$t1,$hiperm # 0x0809..1e1f

$SHRI  $len,$len,4  # this allows to use sign bit
    # as carry
lvx_u  $IN0,0,$inp  # load input
lvx_u  $IN1,r8,$inp
subic.  $len,$len,8
lvx_u  $IN2,r9,$inp
lvx_u  $IN3,r10,$inp
addi  $inp,$inp,0x40
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask
le?vperm $IN2,$IN2,$IN2,$lemask
le?vperm $IN3,$IN3,$IN3,$lemask

vxor  $Xh,$IN0,$Xl

 vpmsumd $Xl1,$IN1,$H3l

vpmsumd $Xm1,$IN1,$H3
 vpmsumd $Xh1,$IN1,$H3h

 vperm  $H21l,$H2,$H,$hiperm
 vperm  $t0,$IN2,$IN3,$loperm
 vperm  $H21h,$H2,$H,$loperm
 vperm  $t1,$IN2,$IN3,$hiperm
 vpmsumd $Xm2,$IN2,$H2  # H^2.loXi+2.hi+H^2.hiXi+2.lo
 vpmsumd $Xl3,$t0,$H21l  # H^2.loXi+2.lo+H.loXi+3.lo
 vpmsumd $Xm3,$IN3,$H  # H.hiXi+3.lo  +H.loXi+3.hi
 vpmsumd $Xh3,$t1,$H21h  # H^2.hiXi+2.hi+H.hiXi+3.hi
```

```
 vxor  $Xm2,$Xm2,$Xm1
 vxor  $Xl3,$Xl3,$Xl1
 vxor  $Xm3,$Xm3,$Xm2
 vxor  $Xh3,$Xh3,$Xh1

 blt  Ltail_4x

Loop_4x:
 lvx_u  $IN0,0,$inp
 lvx_u  $IN1,r8,$inp
 subic.  $len,$len,4
 lvx_u  $IN2,r9,$inp
 lvx_u  $IN3,r10,$inp
 addi  $inp,$inp,0x40
 le?vperm $IN1,$IN1,$IN1,$lemask
 le?vperm $IN2,$IN2,$IN2,$lemask
 le?vperm $IN3,$IN3,$IN3,$lemask
 le?vperm $IN0,$IN0,$IN0,$lemask

 vpmsumd  $Xl,$Xh,$H4l  # H^4.loXi.lo
 vpmsumd  $Xm,$Xh,$H4  # H^4.hiXi.lo+H^4.loXi.hi
 vpmsumd  $Xh,$Xh,$H4h  # H^4.hiXi.hi
 vpmsumd $Xl1,$IN1,$H3l
 vpmsumd $Xm1,$IN1,$H3
 vpmsumd $Xh1,$IN1,$H3h

 vxor  $Xl,$Xl,$Xl3
 vxor  $Xm,$Xm,$Xm3
 vxor  $Xh,$Xh,$Xh3

 vperm  $t0,$IN2,$IN3,$loperm
 vperm  $t1,$IN2,$IN3,$hiperm

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase
 vpmsumd $Xl3,$t0,$H21l  # H.loXi+3.lo  +H^2.loXi+2.lo
 vpmsumd $Xh3,$t1,$H21h  # H.hiXi+3.hi  +H^2.hiXi+2.hi

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1

 vsldoi  $Xl,$Xl,$Xl,8
 vxor  $Xl,$Xl,$t2

 vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
 vpmsumd $Xm2,$IN2,$H2  # H^2.hiXi+2.lo+H^2.loXi+2.hi
 vpmsumd $Xm3,$IN3,$H  # H.hiXi+3.lo  +H.loXi+3.hi
```

```
 vpmsumd  $Xl,$Xl,$xC2

  vxor  $Xl3,$Xl3,$Xl1
  vxor  $Xh3,$Xh3,$Xh1
 vxor  $Xh,$Xh,$IN0
  vxor  $Xm2,$Xm2,$Xm1
 vxor  $Xh,$Xh,$t1
  vxor  $Xm3,$Xm3,$Xm2
 vxor  $Xh,$Xh,$Xl
 bge  Loop_4x

Ltail_4x:
 vpmsumd  $Xl,$Xh,$H4l  # H^4.loXi.lo
 vpmsumd  $Xm,$Xh,$H4  # H^4.hiXi.lo+H^4.loXi.hi
 vpmsumd  $Xh,$Xh,$H4h  # H^4.hiXi.hi

 vxor  $Xl,$Xl,$Xl3
 vxor  $Xm,$Xm,$Xm3

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction
 phase

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
  vxor  $Xh,$Xh,$Xh3
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1

 vsldoi  $Xl,$Xl,$Xl,8
 vxor  $Xl,$Xl,$t2

 vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
 vpmsumd  $Xl,$Xl,$xC2
 vxor  $t1,$t1,$Xh
 vxor  $Xl,$Xl,$t1

 addic.  $len,$len,4
 beq  Ldone_4x

 lvx_u  $IN0,0,$inp
 ${UCMP}i $len,2
 li  $len,-4
 blt  Lone
 lvx_u  $IN1,r8,$inp
 beq  Ltwo

Lthree:
 lvx_u  $IN2,r9,$inp
```

```
 le?vperm $IN0,$IN0,$IN0,$lemask
 le?vperm $IN1,$IN1,$IN1,$lemask
 le?vperm $IN2,$IN2,$IN2,$lemask

 vxor  $Xh,$IN0,$Xl
 vmr  $H4l,$H3l
 vmr  $H4, $H3
 vmr  $H4h,$H3h

 vperm  $t0,$IN1,$IN2,$loperm
 vperm  $t1,$IN1,$IN2,$hiperm
 vpmsumd  $Xm2,$IN1,$H2  # H^2.loXi+1.hi+H^2.hiXi+1.lo
 vpmsumd  $Xm3,$IN2,$H  # H.hiXi+2.lo  +H.loXi+2.hi
 vpmsumd  $Xl3,$t0,$H21l  # H^2.loXi+1.lo+H.loXi+2.lo
 vpmsumd  $Xh3,$t1,$H21h  # H^2.hiXi+1.hi+H.hiXi+2.hi

 vxor  $Xm3,$Xm3,$Xm2
 b  Ltail_4x

.align 4
Ltwo:
 le?vperm $IN0,$IN0,$IN0,$lemask
 le?vperm $IN1,$IN1,$IN1,$lemask

 vxor  $Xh,$IN0,$Xl
 vperm  $t0,$zero,$IN1,$loperm
 vperm  $t1,$zero,$IN1,$hiperm

 vsldoi  $H4l,$zero,$H2,8
 vmr  $H4,
 $H2
 vsldoi  $H4h,$H2,$zero,8

 vpmsumd  $Xl3,$t0, $H21l  # H.loXi+1.lo
 vpmsumd  $Xm3,$IN1,$H  # H.hiXi+1.lo+H.loXi+2.hi
 vpmsumd  $Xh3,$t1, $H21h  # H.hiXi+1.hi

 b  Ltail_4x

.align 4
Lone:
 le?vperm $IN0,$IN0,$IN0,$lemask

 vsldoi  $H4l,$zero,$H,8
 vmr  $H4, $H
 vsldoi  $H4h,$H,$zero,8

 vxor  $Xh,$IN0,$Xl
```

```
 vxor  $Xl3,$Xl3,$Xl3
 vxor  $Xm3,$Xm3,$Xm3
 vxor  $Xh3,$Xh3,$Xh3

 b  Ltail_4x

Ldone_4x:
 le?vperm $Xl,$Xl,$Xl,$lemask
 stvx_u  $Xl,0,$Xip  # write out Xi

 li  r10,`15+6*$SIZE_T`
 li  r11,`31+6*$SIZE_T`
 mtspr  256,$vrsave
 lvx  v20,r10,$sp
 addi  r10,r10,32
 lvx  v21,r11,$sp
 addi  r11,r11,32
 lvx  v22,r10,$sp
 addi  r10,r10,32
 lvx  v23,r11,$sp
 addi  r11,r11,32
 lvx  v24,r10,$sp
 addi  r10,r10,32
 lvx  v25,r11,$sp
 addi  r11,r11,32
 lvx  v26,r10,$sp
 addi  r10,r10,32
 lvx  v27,r11,$sp
 addi  r11,r11,32
 lvx  v28,r10,$sp
 addi  r10,r10,32
 lvx  v29,r11,$sp
 addi  r11,r11,32
 lvx  v30,r10,$sp
 lvx  v31,r11,$sp
 addi  $sp,$sp,$FRAME
 blr
 .long  0
 .byte  0,12,0x04,0,0x80,0,4,0
 .long  0
___
}
$code.=<<___;
.size .gcm_ghash_p8,.-.gcm_ghash_p8

.asciz
  "GHASH for PowerISA 2.07, CRYPTOGAMS by <appro\@openssl.org>"
.align  2
```

```
—

foreach (split("\n",$code)) {
 s/\`([^\`]*)\`/eval $1/geo;

 if ($flavour =~ /le$/o) { # little-endian
     s/le\?//o  or
     s/be\?/#be#/o;
 } else {
     s/le\?/#le#/o or
     s/be\?//o;
 }
 print $_,"\n";
}

close STDOUT; # enforce flush
```

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 tlhelp32.h - Include file for Tool help functions.

 Written by Mumit Khan <khan@nanotech.wisc.edu>

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applications that use U-Boot services by means of the jump table
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considered normal use of U-Boot, and does *not* fall under the
heading of "derived work".

 The header files "include/image.h" and "include/asm-*/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
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 Also note that the GPL
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-- Wolfgang Denk

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1.473 libcipmi 1.0

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1.474 json-c 1.7.10

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1.475 uuid 1.1

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1.478 xfsprogs 4.18.0

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1.479 bind 8.2.0

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh,
admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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-->

<!-- $Id$ -->

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

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

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

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
```

```
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

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

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1.483 lvm2 2.02.180

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(For example, a function in a library to compute square roots has

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

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1.486 netperf 2.6.0

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1.487 openssh 8.0

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[Tatu continues]

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```
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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```

b) snprintf replacement

```
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1.488 icu 62

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
```

```
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

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

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

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

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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program
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src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c

src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex .

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
`hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the
same patterns as the file
`frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex .

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
patterns as the files `dehypht-x-2017-03-31.pat' and
`dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found
at

http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl

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. The file `tmac/hyphen.cs' contains the same patterns as the file
`czhyphen.tex' (for TeX), which can be found in the archive

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz .

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The End

1.491 sg3-utils 1.37-12.el7

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10th April 2012

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1.492 e2fsprogs 1.44.3

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

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```
#
# This 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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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
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+ trivial database library - standalone version

- trivial database library - private includes
-
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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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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This package was put together by Yann Dirson <dirson@debian.org>,
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This is the Debian GNU/Linux prepackaged version of the Common Error
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system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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1.493 dtc 1.4.7

1.493.1 Available under license :

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==========

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two pieces of software, although closely related, are quite distinct.
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versa. It is important that these two pieces of software have
different license conditions.

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important goal.

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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<signature of Ty Coon>, 1 April 1989
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The End

1.495 websocketpp 0.8.1

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Bundled Libraries:

****** Base 64 Library (base64/base64.hpp) ******
base64.hpp is a repackaging of the base64.cpp and base64.h files into a
single header suitable for use as a header only library. This conversion was
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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

****** SHA1 Library (sha1/sha1.hpp) ******

sha1.hpp is a repackaging of the sha1.cpp and sha1.h files from the shallsha1
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 into a single header suitable for
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****** MD5 Library (common/md5.hpp) ******
md5.hpp is a reformulation of the md5.h and md5.c code from
http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c to allow it to
function as a component of a header only library. This conversion
 was done by
Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The
changes are released under the same license as the original (listed below)

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L. Peter Deutsch
ghost@aladdin.com

****** UTF8 Validation logic (utf8_validation.hpp) ******
utf8_validation.hpp is adapted from code originally written by Bjoern Hoehrmann
<bjoern@hoehrmann.de>. See http://bjoern.hoehrmann.de/utf-8/decoder/dfa/ for
details.

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1.496 libseccomp 2.3.3

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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Version 3, 29 June 2007

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b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
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d) Convey the object code by offering access from a designated
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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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 for the nxt2004 frontend driver

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 for merging the nxt2002 and nxt2004 modules into a
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The End

1.503 gettext 0.20.1-r2

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1.504 libnl3 1.1.4-3.el7

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
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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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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

1.506 libnl3 3.2.25

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the

Library even though the source code is not.
Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a

copy of the library already present on the user's computer system,
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the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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1.515 linux-kernel 3.14.39

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Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By

including just a single `bootstrap module`_ (a 12K .py file), your package will
automatically download and install ``setuptools`` if the user is building your
package from source and doesn't have a suitable version already installed.

.. _bootstrap
 module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using
 the `EasyInstall tool <easy_install.html>`_,
 which supports downloading via HTTP, FTP, Subversion, and SourceForge, and
 automatically scans web pages linked from PyPI to find download links. (It's
 the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ -
 a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them
 individually in setup.py

* Automatically include all relevant files in your source distributions,
 without needing to create a ``MANIFEST.in`` file, and without having to force
 regeneration of the ``MANIFEST`` file when your source tree changes.

* Automatically generate wrapper scripts or Windows
 (console and GUI) .exe
 files for any number of "main" functions in your project. (Note: this is not
 a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list ``.pyx`` files and
 still work even when the end-user doesn't have Pyrex installed (as long as
 you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut
 names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on
 ``sys.path``, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or ``setup()`` arguments, and
 distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover

extensions,
using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`_

Developer's Guide

Installing ``setuptools``
==========

Please follow the `EasyInstall Installation Instructions`_ to install the
current stable version of setuptools. In particular, be sure to read the
section on `Custom Installation Locations`_ if you are installing anywhere
other than Python's ``site-packages`` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

..
 _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first
install a stable version, and then run::

  ez_setup.py setuptools==dev

This will download and install the latest development (i.e. unstable) version
of setuptools from the Python Subversion sandbox.

Basic Use
=========

For basic use of setuptools, just import things from setuptools instead of
the distutils. Here's a minimal setup script using setuptools::

```
  from setuptools import setup, find_packages
  setup(
      name = "HelloWorld",
      version = "0.1",
      packages = find_packages(),
  )
```

As you can see, it doesn't take much to use setuptools in a project.
Run that script in your project folder, alongside the Python packages
you have developed.

Invoke that script to produce eggs, upload to
PyPI, and automatically include all packages in the directory where the
setup.py lives. See
 the `Command Reference`_ section below to see what
commands you can give to this setup script. For example,
to produce a source distribution, simply invoke::

```
  python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit
more information to your setup script to help people find or learn about your
project. And maybe your project will have grown by then to include a few
dependencies, and perhaps some data files and scripts::

```
  from setuptools import setup, find_packages
  setup(
      name = "HelloWorld",
      version = "0.1",
      packages = find_packages(),
      scripts = ['say_hello.py'],

      # Project uses reStructuredText, so ensure that the docutils get
      # installed or upgraded on the target machine
      install_requires = ['docutils>=0.3'],

      package_data = {
          # If any package contains *.txt or *.rst files, include them:
          '': ['*.txt', '*.rst'],
          # And include any *.msg
 files found in the 'hello' package, too:
          'hello': ['*.msg'],
      },

      # metadata for upload to PyPI
      author = "Me",
      author_email = "me@example.com",
```

```
    description = "This is an Example Package",
    license = "PSF",
    keywords = "hello world example examples",
    url = "http://example.com/HelloWorld/",   # project home page, if any

    # could also include long_description, download_url, classifiers, etc.
  )
```

In the sections that follow, we'll explain what most of these ``setup()``
arguments do (except for the metadata ones), and the various ways you might use
them in your own project(s).

Specifying Your Project's Version

Setuptools can work well with most versioning schemes; there are, however, a
few special things to watch out for, in order to ensure that setuptools and
EasyInstall can always tell what version of your package is newer than another
version. Knowing these things
 will also help you correctly specify what
versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release
or post-release tags. A release number is a series of digits punctuated by
dots, such as ``2.4`` or ``0.5``. Each series of digits is treated
numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the
same release number, denoting the first subrelease of release 2. But ``2.10``
is the *tenth* subrelease of release 2, and so is a different and newer release
from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also
ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release
tag. Pre-release tags make a version be considered *older* than the version
they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``,
which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease
 tags make
a version be considered *newer* than the version they are appended to. So,
revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are *older*
than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before
"final". Some examples of prerelease tags would include ``alpha``, ``beta``,
``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash
before the prerelease tag if it's immediately after a number, but it's okay to
do so if you prefer. Thus, ``2.4c1`` and ``2.4.c1`` and ``2.4-c1`` all
represent release candidate 1 of version ``2.4``, and are treated as identical
by setuptools.

In addition, there are three special prerelease tags that are treated as if
they were the letter ``c``: ``pre``, ``preview``, and ``rc``. So, version
``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as
``2.4c1``, and are treated as identical by setuptools.

A post-release
 tag is either a series of letters that are alphabetically
greater than or equal to "final", or a dash (``-``). Post-release tags are
generally used to separate patch numbers, port numbers, build numbers, revision
numbers, or date stamps from the release number. For example, the version
``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of
version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped
post-release.

Notice that after each pre or post-release tag, you are free to place another
release number, followed again by more pre- or post-release tags. For example,
``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-
development version of the ninth alpha of release 0.6. Notice that ``dev`` is
a pre-release tag, so this version is a *lower* version number than ``0.6a9``,
which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is
a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the
 most part, setuptools' interpretation of version numbers is intuitive,
but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number
 between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``,
 not a development pre-release of ``1.9a``. Use ``.dev`` instead, as in
 ``1.9a.dev``, or separate the prerelease tags with a number, as in
 ``1.9a0dev``. ``1.9a.dev``, ``1.9a0dev``, and even ``1.9.a.dev`` are
 identical versions from setuptools' point of view, so you can use whatever
 scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way
 you think it will, you can use the ``pkg_resources.parse_version()`` function
 to compare different version numbers::

  >>> from pkg_resources import parse_version
  >>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
  True
  >>> parse_version('2.1-rc2') < parse_version('2.1')
  True
   >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
  True

Once you've decided on a version numbering scheme for your project, you can

have setuptools automatically tag your in-development releases with various
pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The `egg_info`_ command

New and Changed ``setup()`` Keywords
====================================

The following keyword arguments to ``setup()`` are added or changed by
``setuptools``. All of them are optional; you do not have to supply them
unless you need the associated ``setuptools`` feature.

``include_package_data``
  If set to ``True``, this tells ``setuptools`` to automatically include any
  data files it finds inside your package directories that are specified by
  your ``MANIFEST.in`` file. For more information, see the section below on
  `Including Data Files`_.

``exclude_package_data``
   A dictionary mapping package names to lists of glob patterns that should
  be *excluded* from your package directories. You can use this to trim back
  any excess files included by ``include_package_data``. For a complete
  description and examples, see the section below on `Including Data Files`_.

``package_data``
  A dictionary mapping package names to lists of glob patterns. For a
  complete description and examples, see the section below on `Including
  Data Files`_. You do not need to use this option if you are using
  ``include_package_data``, unless you need to add e.g. files that are
  generated by your setup script and build process. (And are therefore not
  in source control or are files that you don't want to include in your
  source distribution.)

``zip_safe``
  A boolean (True or False) flag specifying whether the project can be
  safely installed and run from a zip file. If this argument is not
  supplied,
 the ``bdist_egg`` command will have to analyze all of your
  project's contents for possible problems each time it builds an egg.

``install_requires``
  A string or list of strings specifying what other distributions need to
  be installed when this one is. See the section below on `Declaring
  Dependencies`_ for details and examples of the format of this argument.

``entry_points``
  A dictionary mapping entry point group names to strings or lists of strings
  defining the entry points. Entry points are used to support dynamic
  discovery of services or plugins provided by a project. See `Dynamic
  Discovery of Services and Plugins`_ for details and examples of the format
  of this argument. In addition, this keyword is used to support `Automatic
  Script Creation`_.

``extras_require``
  A dictionary mapping names of "extras" (optional features of your project)
  to strings or lists of strings specifying what other distributions must be
  installed to
 support those features. See the section below on `Declaring
  Dependencies`_ for details and examples of the format of this argument.

``setup_requires``
  A string or list of strings specifying what other distributions need to
  be present in order for the *setup script* to run. ``setuptools`` will
  attempt to obtain these (even going so far as to download them using
  ``EasyInstall``) before processing the rest of the setup script or commands.
  This argument is needed if you are using distutils extensions as part of
  your build process; for example, extensions that process setup() arguments
  and turn them into EGG-INFO metadata files.

  (Note: projects listed in ``setup_requires`` will NOT be automatically
  installed on the system where the setup script is being run. They are
  simply downloaded to the ./.eggs directory if they're not locally available
  already. If you want them to be installed, as well as being available
  when the setup script
 is run, you should add them to ``install_requires``
  and ``setup_requires``.)

``dependency_links``
  A list of strings naming URLs to be searched when satisfying dependencies.
  These links will be used if needed to install packages specified by
  ``setup_requires`` or ``tests_require``. They will also be written into
  the egg's metadata for use by tools like EasyInstall to use when installing
  an ``.egg`` file.

``namespace_packages``
  A list of strings naming the project's "namespace packages". A namespace
  package is a package that may be split across multiple project
  distributions. For example, Zope 3's ``zope`` package is a namespace
  package, because subpackages like ``zope.interface`` and ``zope.publisher``
  may be distributed separately. The egg runtime system can automatically
  merge such subpackages into a single parent package at runtime, as long
  as you declare them in each project that contains any subpackages of the
  namespace

package, and as long as the namespace package's ``__init__.py``
  does not contain any code other than a namespace declaration. See the
  section below on `Namespace Packages`_ for more information.

``test_suite``
  A string naming a ``unittest.TestCase`` subclass (or a package or module
  containing one or more of them, or a method of such a subclass), or naming
  a function that can be called with no arguments and returns a
  ``unittest.TestSuite``. If the named suite is a module, and the module
  has an ``additional_tests()`` function, it is called and the results are
  added to the tests to be run. If the named suite is a package, any
  submodules and subpackages are recursively added to the overall test suite.

  Specifying this argument enables use of the `test`_ command to run the
  specified test suite, e.g. via ``setup.py test``. See the section on the
  `test`_ command below for more details.

``tests_require``
  If your project's tests need
one or more additional packages besides those
  needed to install it, you can use this option to specify them. It should
  be a string or list of strings specifying what other distributions need to
  be present for the package's tests to run. When you run the ``test``
  command, ``setuptools`` will attempt to obtain these (even going
  so far as to download them using ``EasyInstall``). Note that these
  required projects will *not* be installed on the system where the tests
  are run, but only downloaded to the project's setup directory if they're
  not already installed locally.

.. _test_loader:

``test_loader``
  If you would like to use a different way of finding tests to run than what
  setuptools normally uses, you can specify a module name and class name in
  this argument. The named class must be instantiable with no arguments, and
  its instances must support the ``loadTestsFromNames()`` method as defined
  in the Python ``unittest`` module's ``TestLoader``
class. Setuptools will
  pass only one test "name" in the `names` argument: the value supplied for
  the ``test_suite`` argument. The loader you specify may interpret this
  string in any way it likes, as there are no restrictions on what may be
  contained in a ``test_suite`` string.

  The module name and class name must be separated by a ``:``. The default
  value of this argument is ``"setuptools.command.test:ScanningLoader"``. If
  you want to use the default ``unittest`` behavior, you can specify
  ``"unittest:TestLoader"`` as your ``test_loader`` argument instead. This
  will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package,
as long as you use the ``tests_require`` option to ensure that the package
containing the loader class is available when the ``test`` command is run.

``eager_resources``
A list of strings naming resources that should be extracted
together, if
any of them is needed, or if any C extensions included in the project are
imported. This argument is only useful if the project will be installed as
a zipfile, and there is a need to have all of the listed resources be
extracted to the filesystem *as a unit*. Resources listed here
should be '/'-separated paths, relative to the source root, so to list a
resource ``foo.png`` in package ``bar.baz``, you would include the string
``bar/baz/foo.png`` in this argument.

If you only need to obtain resources one at a time, or you don't have any C
extensions that access other files in the project (such as data files or
shared libraries), you probably do NOT need this argument and shouldn't
mess with it. For more details on how this argument works, see the section
below on `Automatic Resource Extraction`_.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the
build process. See :doc:`python3`
for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during
the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

For simple projects, it's usually easy enough to manually add packages to
the ``packages`` argument of ``setup()``. However, for very large projects
(Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the
package list updated. That's what ``setuptools.find_packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name
patterns to exclude and include. If omitted, the source directory defaults to
the same
directory as the setup script. Some projects use a ``src`` or ``lib``

directory as the root of their source tree, and those projects would of course
use ``"src"`` or
 ``"lib"`` as the first argument to ``find_packages()``. (And
such projects also need something like ``package_dir = {'':'src'}`` in their
``setup()`` arguments, but that's just a normal distutils thing.)

Anyway, ``find_packages()`` walks the target directory, filtering by inclusion
patterns, and finds Python packages (any directory). On Python 3.2 and
earlier, packages are only recognized if they include an ``__init__.py`` file.
Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including
wildcards. For
example, ``find_packages(exclude=["*.tests"])`` will exclude all packages whose
last name part is ``tests``. Or, ``find_packages(exclude=["*.tests",
"*.tests.*"])`` will also exclude any subpackages of packages named ``tests``,
but it still won't exclude a top-level ``tests`` package or the children
thereof. In fact, if you really want no ``tests`` packages at all, you'll need
something like this::

    find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])

in order to cover all the bases. Really, the exclusion patterns are intended
to cover simpler use cases than this, like excluding a single, specified
package and its subpackages.

Regardless of the parameters, the ``find_packages()``
function returns a list of package names suitable for use as the ``packages``
argument to ``setup()``, and so is usually the easiest way to set that
argument in your setup script. Especially since it frees you from having to
remember to modify your setup script whenever your project grows additional
top-level packages or subpackages.

Automatic Script Creation
=========================

Packaging and installing scripts can be a bit awkward with the distutils. For
one thing, there's no easy way to have a script's filename match local
conventions on both Windows and POSIX platforms. For another, you often have
to create a separate file just for the "main" script, when your actual
 "main"
is a function in a module somewhere. And even in Python 2.4, using the ``-m``
option only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts
for you with the correct extension, and on Windows it will even create an
``.exe`` file so that users don't have to change their ``PATHEXT`` settings.

The way to use this feature is to define "entry points" in your setup script
that indicate what function the generated script should import and run. For
example, to create two console scripts called ``foo`` and ``bar``, and a GUI
script called ``baz``, you might do something like this::

```
  setup(
     # other arguments here...
     entry_points={
        'console_scripts': [
           'foo = my_package.some_module:main_func',
           'bar = other_module:some_func',
        ],
        'gui_scripts': [
           'baz = my_package_gui:start_func',

]
     }
  )
```

When this project is installed on non-Windows platforms (using "setup.py
install", "setup.py develop", or by using EasyInstall), a set of ``foo``,
``bar``, and ``baz`` scripts will be installed that import ``main_func`` and
``some_func`` from the specified modules. The functions you specify are called
with no arguments, and their return value is passed to ``sys.exit()``, so you
can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are
created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The
``.exe`` wrappers find and execute the right version of Python to run the
``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you
like, and each one can optionally specify "extras" that it depends on, that
will be added to ``sys.path`` when the script is run. For more information on
"extras", see the section below on `Declaring Extras`_.
  For more information
on "entry points" in general, see the section below on `Dynamic Discovery of
Services and Plugins`_.

"Eggsecutable" Scripts

Occasionally, there are situations where it's desirable to make an ``.egg``
file directly executable. You can do this by including an entry point such
as the following::

```
  setup(
```

```
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls ``main_func()`` from ``my_package.some_module``. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with ``/bin/sh``, or by enabling execute permissions on the ``.egg`` file. For the executable prelude to run, the appropriate version of Python must be available via the ``PATH`` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a ``python2.3`` executable present in a directory on ``PATH``.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, ``pkg_resources`` will know what project and version is in use. The header script will check this and exit with an error if the ``.egg`` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies
======================

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and ``pkg_resources`` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators ``<``, ``>``, ``<=``, ``>=``, ``==`` or ``!=``, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with ``-``.

Version specifiers for a given project are internally sorted into ascending

version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ``">1, >2"`` becomes ``">1"``, and ``"<2,<3"`` becomes ``"<3"``). ``"!="`` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting
 ranges. (Note that providing conflicting conditions
for the same version (e.g. "<2,>=2" or "==2,!=2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::

```
  docutils >= 0.3

  # comment lines and \ continuations are allowed in requirement strings
  BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
     ==1.6, ==1.7  # and so are line-end comments

  PEAK[FastCGI, reST]>=0.5a4

  setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the ``install_requires`` argument to ``setup()``. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, ``setup.py
   install``, or ``setup.py develop``, all of the dependencies not already
   installed will be located (via PyPI), downloaded, built (if necessary),
    and installed.

2. Any scripts in your project will be installed with wrappers that verify
   the availability of the specified dependencies at runtime, and ensure that
   the correct versions are added to ``sys.path`` (e.g. if multiple versions
   have been installed).

3. Python Egg distributions will include a metadata file listing the
   dependencies.

Note, by the way, that if you declare your dependencies in ``setup.py``, you do *not* need to use the ``require()`` function in your scripts or modules, as long as you either install the project or use ``setup.py develop`` to do development work on it. (See `"Development Mode"`_ below for more details on using ``setup.py develop``.)

Dependencies that aren't in PyPI

If your project depends on packages that aren't registered in PyPI, you may
still be able to depend on them, as long as they are available for download
as:

- an egg, in the standard distutils ``sdist`` format,
- a single ``.py`` file,
 or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the ``dependency_links`` argument to
``setup()``.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less
complex to update a web page than to release a new version of your project.
You can also use a SourceForge ``showfiles.php`` link in the case where a
package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single ``.py`` file, you
must include an ```"#egg=project-version"`` suffix to the URL, to give a project
name and version number. (Be sure to escape any dashes in the name or version
by replacing them with underscores.) EasyInstall will recognize this suffix
and automatically create a trivial ``setup.py`` to wrap the single ``.py`` file
as an egg.

In the case of a VCS checkout, you
 should also append ``#egg=project-version``
in order to identify for what package that checkout should be used. You can
append ``@REV`` to the URL's path (before the fragment) to specify a revision.
Additionally, you can also force the VCS being used by prepending the URL with
a certain prefix. Currently available are:

- ``svn+URL`` for Subversion,
- ``git+URL`` for Git, and
- ``hg+URL`` for Mercurial

A more complete example would be:

  ``vcs+proto://host/path@revision#egg=project-version``

Be careful with the version. It should match the one inside the project files.
If you want to disregard the version, you have to omit it both in the
``requires`` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a
temporary folder and run ``setup.py bdist_egg``.

The ``dependency_links`` option takes the form of a list of URL strings. For
example, the below will cause EasyInstall to search the specified page for
eggs or source distributions,
 if the package's dependencies aren't already
installed::

```
  setup(
      ...
      dependency_links = [
          "http://peak.telecommunity.com/snapshots/"
      ],
  )
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for
all uses of the project. For example, a project might offer optional PDF
output if ReportLab is installed, and reStructuredText support if docutils is
installed. These optional features are called "extras", and setuptools allows
you to define their requirements as well. In this way, other projects that
require these optional features can force the additional requirements to be
installed, by naming the desired extras in their ``install_requires``.

For example, let's say that Project A offers optional PDF and reST support::

```
  setup(
      name="Project-A",


     ...
      extras_require = {
          'PDF':  ["ReportLab>=1.2", "RXP"],
          'reST': ["docutils>=0.3"],
      }
  )
```

As you can see, the ``extras_require`` argument takes a dictionary mapping

names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points`_ to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```
  setup(
     name="Project-A",
     ...
     entry_points = {
        'console_scripts': [
           'rst2pdf = project_a.tools.pdfgen
 [PDF]',
           'rst2html = project_a.tools.htmlgen',
           # more script entry points ...
        ],
     }
  )
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```
  setup(
     name="Project-B",
     install_requires = ["Project-A[PDF]"],
     ...
  )
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information
 does
not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its ``extras_require`` argument, so that packages depending on that feature

don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF':  [],
        'reST': ["docutils>=0.3"],
    }
)
```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement specifier.

Including Data Files
====================

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually
by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the ``include_package_data`` keyword, e.g.::

```
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' ``MANIFEST.in`` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems`_ for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ``package_data`` keyword, e.g.::

```
from setuptools import setup, find_packages
```

```
  setup(

  ...
      package_data = {
          # If any package contains *.txt or *.rst files, include them:
          '': ['*.txt', '*.rst'],
          # And include any *.msg files found in the 'hello' package, too:
          'hello': ['*.msg'],
      }
  )
```

The ``package_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```
  setup.py
  src/
      mypkg/
          __init__.py
          mypkg.txt
          data/
              somefile.dat
              otherdata.dat
```

The setuptools setup file might look like this::

```
  from setuptools import setup, find_packages
  setup(
      ...
      packages = find_packages('src'),  # include all packages under src
      package_dir = {'':'src'},   # tell distutils packages are under src

      package_data = {

  # If any package contains *.txt files, include them:
          '': ['*.txt'],
          # And include any *.dat files found in the 'data' subdirectory
          # of the 'mypkg' package, also:
          'mypkg': ['data/*.dat'],
      }
  )
```

Notice that if you list patterns in ``package_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (``/``) as
the path separator, even if you are on Windows. Setuptools automatically
converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in
``setuptools``, it was also added to the Python ``distutils`` package as of
Python 2.4; there is `some documentation for the feature`__
 available on the
python.org website. If using the setuptools-specific ``include_package_data``
argument, files specified by ``package_data`` will *not* be automatically
added to the manifest unless they are listed in the MANIFEST.in file.)

__ http://docs.python.org/dist/node11.html

Sometimes, the ``include_package_data`` or ``package_data`` options alone
aren't sufficient to precisely define what files you want included. For
example, you may want to include package README files in your revision control
system and source distributions, but exclude them from being installed. So,
setuptools offers an ``exclude_package_data`` option as well, that allows you
to do things like this::

```
  from setuptools import setup, find_packages
  setup(
      ...
      packages = find_packages('src'),  # include all packages under src
      package_dir = {'':'src'},   # tell distutils packages are under src

      include_package_data = True,    # include everything in source control

       # ...but exclude README.txt from all packages
      exclude_package_data = { '': ['README.txt'] },
  )
```

The ``exclude_package_data`` option is a dictionary mapping package names to
lists of wildcard patterns, just like the ``package_data`` option. And, just
as with that option, a key of ``''`` will apply the given pattern(s) to all
packages. However, any files that match these patterns will be *excluded*
from installation, even if they were listed in ``package_data`` or were
included as a result of using ``include_package_data``.

In summary, the three options allow you to:

``include_package_data``
  Accept all data files and directories matched by ``MANIFEST.in``.

``package_data``
  Specify additional patterns to match files and directories that may or may
  not be matched by ``MANIFEST.in`` or found in source control.

``exclude_package_data``
  Specify patterns for data files and directories that should *not* be
  included when a package is installed,
 even if they would otherwise have
  been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you
include in your project and then stop including may be "orphaned" in your
project's build directories, requiring you to run ``setup.py clean --all`` to
fully remove them. This may also be important for your users and contributors
if they track intermediate revisions of your project using Subversion; be sure
to let them know when you make changes that remove files from inclusion so they
can run ``setup.py clean --all``.

Accessing Data Files at Runtime

Typically, existing programs manipulate a package's ``__file__`` attribute in
order to find the location of data files. However, this manipulation isn't
compatible with PEP 302-based import hooks, including importing from zip files
and Python Eggs. It is strongly recommended that, if you are using data files,
you should use the `Resource
 Management API`_ of ``pkg_resources`` to access
them. The ``pkg_resources`` module is distributed as part of setuptools, so if
you're using setuptools to distribute your package, there is no reason not to
use its resource management API. See also `Accessing Package Resources`_ for
a quick example of converting code that uses ``__file__`` to use
``pkg_resources`` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files

The ``distutils`` normally install general "data files" to a platform-specific
location (e.g. ``/usr/share``). This feature intended to be used for things
like documentation, example configuration files, and the like. ``setuptools``
does not install these data files in a separate location, however. They are
bundled inside the egg file or directory, alongside
 the Python modules and
packages. The data files can also be accessed using the `Resource Management
API`_, by specifying a ``Requirement`` instead of a package name::

```
  from pkg_resources import Requirement, resource_filename
  filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use ``resource_filename()`` with the directory name to get a filesystem directory that then can be copied with the ``shutil`` module. (Even if your package
is installed as a zipfile, calling
``resource_filename()`` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the ``eager_resources`` argument to ``setup()``, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared
libraries *other*
than distutils-built C extensions, and those shared libraries use file extensions other than ``.dll``, ``.so``, or ``.dylib``, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the ``native_libs.txt`` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as ``eager_resources``, because they need to be present in the filesystem when he C extensions that link to them are used.

The ``pkg_resources`` runtime for compressed packages will automatically extract *all* C extensions and ``eager_resources`` at the same time, whenever *any* C extension or eager resource is requested via the ``resource_filename()`` API. (C extensions are imported using ``resource_filename()`` internally.) This ensures that C extensions will see all of the "real" files that they

expect to see.

Note also that you can list directory resource names in ``eager_resources`` as well, in which
case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of ``eager_resources`` being relevant to your project.

Extensible Applications and Frameworks
==========

.. _Entry Points:

Dynamic Discovery of Services and Plugins

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in
your
project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ``blogtool.parsers``, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application

or
framework, you'll need to know what entry points or entry point groups are
defined by that application or framework. Then, you can register entry points
in your setup script. Here are a few examples of ways you might register an
``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group,
for our hypothetical blogging tool::

```
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)

setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)

setup(
    # ...
    entry_points = """
        [blogtool.parsers]
        .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """,
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The ``entry_points`` argument to ``setup()`` accepts either a string with
``.ini``-style sections, or a dictionary mapping entry point group names to
either strings or lists of strings containing entry
point specifiers. An
entry point specifier consists of a name and value, separated by an ``=``
sign. The value consists of a dotted module name, optionally followed by a
``:`` and a dotted identifier naming an object within the module. It can
also include a bracketed list of "extras" that are required for the entry
point to be used. When the invoking application or framework requests loading
of an entry point, any requirements implied by the associated extras will be
passed to ``pkg_resources.require()``, so that an appropriate error message
can be displayed if the needed package(s) are missing. (Of course, the
invoking app or framework can ignore such errors if it wants to make an entry
point optional if a requirement isn't installed.)

Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds
of metadata to include in eggs, which they can then access using the
``pkg_resources`` metadata APIs.

Ordinarily, this is done by having plugin
developers include additional files in their ``ProjectName.egg-info``
directory. However, since it can be tedious to create such files by hand, you
may want to create a distutils extension that will create the necessary files
from arguments to ``setup()``, in much the same way that ``setuptools`` does
for many of the ``setup()`` arguments it adds. See the section below on
`Creating distutils Extensions`_ for more details, especially the subsection on
`Adding new EGG-INFO Files`_.

"Development Mode"
==========

Under normal circumstances, the ``distutils`` assume that you are going to
build a distribution of your project, not use it in its "raw" or "unbuilt"
form. If you were to use the ``distutils`` that way, you would have to rebuild
and reinstall your project every time you made a change to it during
development.

Another problem that sometimes comes up with the ``distutils`` is that you may
need to do development on two related
projects at the same time. You may need
to put both projects' packages in the same directory to run them, but need to
keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or
staging area, but without copying any files. Thus, you can edit each project's
code in its checkout directory, and only need to run build commands when you
change a project's C extensions or similarly compiled files. You can even
deploy a project into another project's checkout directory, if that's your
preferred way of working (as opposed to using a common independent staging area
or the site-packages directory).

To do this, use the ``setup.py develop`` command. It works very similarly to
``setup.py install`` or the EasyInstall tool, except that it doesn't actually
install anything. Instead, it creates a special ``.egg-link`` file in the
deployment directory, that links to your project's source code. And, if your
deployment
directory is Python's ``site-packages`` directory, it will also
update the ``easy-install.pth`` file to include your project's source code,
thereby making it available on ``sys.path`` for all programs using that Python
installation.

If you have enabled the ``use_2to3`` flag, then of course the ``.egg-link``
will not link directly to your source code when run under Python 3, since
that source code would be made for Python 2 and not work under Python 3.
Instead the ``setup.py develop`` will build Python 3 code under the ``build``
directory, and link there. This means that after doing code changes you will

have to run ``setup.py build`` before these changes are picked up by your
Python 3 installation.

In addition, the ``develop`` command creates wrapper scripts in the target
script directory that will run your in-development scripts after ensuring that
all your ``install_requires`` packages are available on ``sys.path``.

You can deploy the same project to multiple staging areas,
 e.g. if you have
multiple projects on the same machine that are sharing the same project you're
doing development work.

When you're done with a given development task, you can remove the project
source from a staging area using ``setup.py develop --uninstall``, specifying
the desired staging area if it's not the default.

There are several options to control the precise behavior of the ``develop``
command; see the section on the `develop`_ command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects,
using commands like this::

  python -c "import setuptools; execfile('setup.py')" develop

That is, you can simply list the normal setup commands and options following
the quoted part.

Distributing a ``setuptools``-based project
===

Using ``setuptools``... Without bundling it!

Your users might not have ``setuptools`` installed on their machines,
 or even
if they do, it might not be the right version. Fixing this is easy; just
download `ez_setup.py`_, and put it in the same directory as your ``setup.py``
script. (Be sure to add it to your revision control system, too.) Then add
these two lines to the very top of your setup script, before the script imports
anything from setuptools:

.. code-block:: python

  import ez_setup
  ez_setup.use_setuptools()

That's it. The ``ez_setup`` module will automatically download a matching

version of ``setuptools`` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' ``ez_setup.py`` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use ``setup.py sdist upload`` or ``setup.py bdist_egg upload`` to upload your source or egg distributions respectively. Your project's current version must be registered
with PyPI first, of course; you can use ``setup.py register`` to do that. Or you can do it all in one step, e.g. ``setup.py register sdist bdist_egg upload`` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of ``setuptools``, you can specify the exact version and base download URL as parameters to the ``use_setuptools()`` function. See the function's docstring for details.)

What Your Users Should Know

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review
the
following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy_install``.

Network Access
If your project is using ``ez_setup``, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations
You should inform your users that if they are installing your project to somewhere other than the main ``site-packages`` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project's Dependencies
If your project depends on other projects that may need to be downloaded

from PyPI or elsewhere, you
should list them in your installation
instructions, or tell users how to find out what they are. While most
users will not need this information, any users who don't have unrestricted
internet access may have to find, download, and install the other projects
manually. (Note, however, that they must still install those projects
using ``easy_install``, or your project will not know they are installed,
and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access,
you may wish to build eggs for your project and its dependencies, making
them all available for download from your site, or at least create a page
with links to all of the needed eggs. In this way, users with limited
network access can manually download all the eggs to a single directory,
then use the ``-f`` option of ``easy_install`` to specify the directory
to find eggs in. Users who have full network
access can just use ``-f``
with the URL of your download page, and ``easy_install`` will find all the
needed eggs using your links directly. This is also useful when your
target audience isn't able to compile packages (e.g. most Windows users)
and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using
a revision control system should probably read this manual's sections
regarding such development. Alternately, you may wish to create a
quick-reference guide containing the tips from this manual that apply to
your particular situation. For example, if you recommend that people use
``setup.py develop`` when tracking your in-development code, you should let
them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you
should remind them to
run ``setup.py clean --all`` and delete any obsolete
``.pyc`` or ``.pyo``. (This tip applies to the distutils in general, not
just setuptools, but not everybody knows about them; be kind to your users
by spelling out your project's best practices rather than leaving them
guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package
manager, and sometimes that package manager isn't ``easy_install``!
Setuptools currently supports ``bdist_rpm``, ``bdist_wininst``, and
``bdist_dumb`` formats for system packaging. If a user has a locally-
installed "bdist" packaging tool that internally uses the distutils
``install`` command, it should be able to work with ``setuptools``. Some
examples of "bdist" formats that this should work with include the
``bdist_nsi`` and ``bdist_msi`` formats for Windows.

However, packaging tools that build binary distributions by running
``setup.py install`` on the
command line or as a subprocess will require
modification to work with setuptools. They should use the
``--single-version-externally-managed`` option to the ``install`` command,
combined with the standard ``--root`` or ``--record`` options.
See the `install command`_ documentation below for more details. The
``bdist_deb`` command is an example of a command that currently requires
this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for
your project, please report the problem via the mailing list so that
either the "bdist" tool in question or setuptools can be modified to
resolve the issue.

Setting the ``zip_safe`` flag

For some use cases (such as bundling as part of a larger application), Python
packages may be run directly from a zip file.
Not all packages, however, are capable of running in compressed form, because
they may expect to be able to access
either source code or data files as
normal operating system files. So, ``setuptools`` can install your project
as a zipfile or a directory, and its default choice is determined by the
project's ``zip_safe`` flag.

You can pass a True or False value for the ``zip_safe`` argument to the
``setup()`` function, or you can omit it. If you omit it, the ``bdist_egg``
command will analyze your project's contents to see if it can detect any
conditions that would prevent it from working in a zipfile. It will output
notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the
project unsafe if it contains any C extensions or datafiles whatsoever. This
does *not* mean that the project can't or won't work as a zipfile! It just
means that the ``bdist_egg`` authors aren't yet comfortable asserting that
the project *will* work. If the project contains no C or data files, and does
no ``__file__`` or ``__path__`` introspection
or source code manipulation, then
there is an extremely solid chance the project will work when installed as a
zipfile. (And if the project uses ``pkg_resources`` for all its data file
access, then C extensions and other data files shouldn't be a problem at all.
See the `Accessing Data Files at Runtime`_ section above for more information.)

However, if ``bdist_egg`` can't be *sure* that your package will work, but

you've checked over all the warnings it issued, and you are either satisfied it
will work (or if you want to try it for yourself), then you should set
``zip_safe`` to ``True`` in your ``setup()`` call. If it turns out that it
doesn't work, you can always change it to ``False``, which will force
``setuptools`` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using
EasyInstall to install your package. And, if you want to override for testing
purposes, you can just run ``setup.py
 easy_install --zip-ok .`` or ``setup.py
easy_install --always-unzip .`` in your project directory. to install the
package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become
more satisfied with the robustness of the ``pkg_resources`` runtime, the
"zip safety" analysis may become less conservative. However, we strongly
recommend that you determine for yourself whether your project functions
correctly when installed as a zipfile, correct any problems if you can, and
then make an explicit declaration of ``True`` or ``False`` for the ``zip_safe``
flag, so that it will not be necessary for ``bdist_egg`` or ``EasyInstall`` to
try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of
smaller eggs. However, Python does not normally allow the contents of a
package to be retrieved from more than one location.
 "Namespace packages"
are a solution for this problem. When you declare a package to be a namespace
package, it means that the package has no meaningful contents in its
``__init__.py``, and that it is merely a container for modules and subpackages.

The ``pkg_resources`` runtime will then automatically ensure that the contents
of namespace packages that are spread over multiple eggs or directories are
combined into a single "virtual" package.

The ``namespace_packages`` argument to ``setup()`` lets you declare your
project's namespace packages, so that they will be included in your project's
metadata. The argument should list the namespace packages that the egg
participates in. For example, the ZopeInterface project might do this::

```
  setup(
      # ...
      namespace_packages = ['zope']
  )
```

because it contains a ``zope.interface`` package that lives in the ``zope``
namespace package. Similarly, a project for a standalone ``zope.publisher``
would also declare the ``zope``
 namespace package. When these projects are
installed and used, Python will see them both as part of a "virtual" ``zope``
package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's
``zope.app`` package is a namespace package, and in the future PEAK's
``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace
packages' ``__init__.py`` files (and the ``__init__.py`` of any parent
packages), in a normal Python package layout. These ``__init__.py`` files
must contain the line::

  __import__('pkg_resources').declare_namespace(__name__)

This code ensures that the namespace package machinery is operating and that
the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's
``__init__.py``. Even though it may appear to work during development, or when
projects are installed as
 ``.egg`` files, it will not work when the projects
are installed using "system" packaging tools -- in such cases the
``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of
every project that has contents for the namespace package in question, in
order to ensure that the namespace will be declared regardless of which
project's copy of ``__init__.py`` is loaded first. If the first loaded
``__init__.py`` doesn't declare it, it will never *be* declared, because no
other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~~~~

Setuptools automatically calls ``declare_namespace()`` for you at runtime,
but future versions may *not*. This is because the automatic declaration
feature has some negative side effects, such as needing to import all namespace
packages during the initialization of the ``pkg_resources`` runtime, and also
the need for ``pkg_resources`` to be explicitly imported before
 any namespace
packages work at all. In some future releases, you'll be responsible
for including your own declaration lines, and the automatic declaration feature
will be dropped to get rid of the negative side effects.
~~~~~~~~~~~~~~~~~~

During the remainder of the current development cycle, therefore, setuptools
will warn you about missing ``declare_namespace()`` calls in your
``__init__.py`` files, and you should correct these as soon as possible
before the compatibility support is removed.
Namespace packages without declaration lines will not work
correctly once a user has upgraded to a later version, so it's important that
you make this change now in order to avoid having your code break in the field.
Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases

When a set of related projects are under development, it may be important to
track finer-grained version increments than you would
 normally use for e.g.
"stable" releases. While stable releases might be measured in dotted numbers
with alpha/beta/etc. status codes, development versions of a project often
need to be tracked by revision or build number or even build date. This is
especially true when projects in development need to refer to one another, and
therefore may literally need an up-to-the-minute version of something!

To support these scenarios, ``setuptools`` allows you to "tag" your source and
egg distributions by adding one or more of the following to the project's
"official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a
 manually-specified post-release tag, such as a build or revision number
 (``--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from
 Subversion's metadata (assuming your project is being built from a Subversion
 "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation
 of the build date (``--tag-date, -d``), as
 a postrelease tag

You can add these tags by adding ``egg_info`` and the desired options to
the command line ahead of the ``sdist`` or ``bdist`` commands that you want
to generate a daily build or snapshot for. See the section below on the
`egg_info`_ command for more details.

(Also, before you release your project, be sure to see the section above on
`Specifying Your Project's Version`_ for more information about how pre- and
post-release tags affect how setuptools and EasyInstall interpret version

numbers. This is important in order to make sure that dependency processing
tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a
downloadable location or are copying them to a distribution server, you should
probably also check out the `rotate`_ command, which lets you automatically
delete all but the N most-recently-modified distributions matching
 a glob
pattern. So, you can use a command line like::

  setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the
most recent Subversion revision that affected the source tree), and then
delete any egg files from the distribution directory except for the three
that were built most recently.

If you have to manage automated builds for multiple packages, each with
different tagging and rotation policies, you may also want to check out the
`alias`_ command, which would let each package define an alias like ``daily``
that would perform the necessary tag, build, and rotate commands. Then, a
simpler script or cron job could just run ``setup.py daily`` in each project
directory. (And, you could also define sitewide or per-user default versions
of the ``daily`` alias, so that projects that didn't define their own would
use the appropriate defaults.)

Generating Source Distributions

``setuptools``
 enhances the distutils' default algorithm for source file
selection with pluggable endpoints for looking up files to include. If you are
using a revision control system, and your source distributions only need to
include files that you're tracking in revision control, use a corresponding
plugin instead of writing a ``MANIFEST.in`` file. See the section below on
`Adding Support for Revision Control Systems`_ for information on plugins.

If you need to include automatically generated files, or files that are kept in
an unsupported revision control system, you'll need to create a ``MANIFEST.in``
file to specify any files that the default file location algorithm doesn't
catch. See the distutils documentation for more information on the format of
the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with
``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you
from these issues and doesn't work the same

way in any case. Unlike the
distutils, setuptools regenerates the source distribution manifest file
every time you build a source distribution, and it builds it inside the
project's ``.egg-info`` directory, out of the way of your main project
directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source
distribution is so much simpler, its ``sdist`` command omits nearly all of
the options that the distutils' more complex ``sdist`` process requires. For
all practical purposes, you'll probably use only the ``--formats`` option, if
you use any option at all.

Making your package available for EasyInstall

If you use the ``register`` command (``setup.py register``) to register your
package with PyPI, that's most of the battle right there. (See the
`docs for the register command`_ for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If
you also use the `upload`_ command to upload actual distributions of your
package, that's even better, because EasyInstall will be able to find and
download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to
PyPI, and just want your existing distributions (or perhaps a Subversion
checkout) to be used instead.

So here's what you need to do before running the ``register`` command. There
are three ``setup()`` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine
them to see if they link to a package ("primary links"), or whether they are
HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the
page for primary links

``long_description``
EasyInstall will check any URLs contained in this argument to see if they
are primary links.

A URL is considered a "primary
link" if it is a link to a .tar.gz, .tgz, .zip,
.egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or
``#egg=project-version`` fragment identifier attached to it. EasyInstall

attempts to determine a project name and optional version number from the text
of a primary link *without* downloading it. When it has found all the primary
links, EasyInstall will select the best match based on requested version,
platform compatibility, and other criteria.

So, if your ``url`` or ``download_url`` point either directly to a downloadable
source distribution, or to HTML page(s) that have direct links to such, then
EasyInstall will be able to locate downloads automatically. If you want to
make Subversion checkouts available, then you should create links with either
``#egg=project`` or ``#egg=project-version`` added to the URL. You should
replace ``project`` and ``version`` with the values they would have in an egg
filename. (Be sure to actually generate an egg and then use
 the initial part
of the filename, rather than trying to guess what the escaped form of the
project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds
of distributions, so EasyInstall will not select a Subversion checkout for
downloading unless it has a version included in the ``#egg=`` suffix, and
it's a higher version than EasyInstall has seen in any other links for your
project.

As a result, it's a common practice to use mark checkout URLs with a version of
"dev" (i.e., ``#egg=projectname-dev``), so that users can do something like
this::

  easy_install --editable projectname==dev

in order to check out the in-development version of ``projectname``.

Managing "Continuous Releases" Using Subversion

If you expect your users to track in-development versions of your project via
Subversion, there are a few additional steps you should take to ensure that
things work smoothly
 with EasyInstall. First, you should add the following
to your project's ``setup.cfg`` file:

.. code-block:: ini

  [egg_info]
  tag_build = .dev
  tag_svn_revision = 1

This will tell ``setuptools`` to generate package version numbers like
``1.0a1.dev-r1263``, which will be considered to be an *older* release than

``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg
infrastructure (including ``setuptools``, ``pkg_resources`` and EasyInstall)
will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and
handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be
the *next* version of your software, not the last released version.
Alternately, you can leave out the ``tag_build=.dev``, and always use the
last release as a version number, so that your post-1.0 builds are labelled
``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far,
however, seem to prefer to think of their project
 as being a future version
still under development, rather than a past version being patched. It is of
course possible for a single project to have both situations, using
post-release numbering on release branches, and pre-release numbering on the
trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to
their checkout URL (as described in the previous section) with an
``#egg=projectname-dev`` suffix. This allows users to request EasyInstall
to download ``projectname==dev`` in order to get the latest in-development
code. Note that if your project depends on such in-progress code, you may wish
to specify your ``install_requires`` (or other requirements) to include
``==dev``, e.g.:

.. code-block:: python

   install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]

The above example says, "I really want at least this particular development
revision number, but feel free to follow and
 use an ``#egg=OtherProject-dev``
link if you find one". This avoids the need to have actual source or binary
distribution snapshots of in-development code available, just to be able to
depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags
as described in this section, it's a good idea to run ``setup.py develop``
after each Subversion checkin or update, because your project's version number
will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ``develop`` command will
take care of fetching the updated dependencies, building changed extensions,
etc. Be sure to also remind any of your users who check out your project
from Subversion that they need to run ``setup.py develop`` after every update
in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~

When
 you make an official release, creating source or binary distributions,
you will need to override the tag settings from ``setup.cfg``, so that you
don't end up registering versions like ``foobar-0.7a1.dev-r34832``. This is
easy to do if you are developing on the trunk and using tags or branches for
your releases - just make the change to ``setup.cfg`` after branching or
tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the
default version options on the command line, using something like::

  python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (``egg_info -RDb ""``) will override the
configured tag information, before creating source and binary eggs, registering
the project with PyPI, and uploading the files. Thus, these commands will use
the plain version from your ``setup.py``, without adding the Subversion
revision number or build designation
 string.

Of course, if you will be doing this a lot, you may wish to create a personal
alias for this operation, e.g.::

  python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

  python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above.
See the sections below on the `egg_info`_ and `alias`_ commands for more ideas.

Distributing Extensions compiled with Pyrex

``setuptools`` includes transparent support for building Pyrex extensions, as
long as you define your extensions using ``setuptools.Extension``, *not*
``distutils.Extension``. You must also not import anything from Pyrex in
your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source
of your ``Extension`` objects in the setup script. ``setuptools`` will detect
at build time whether Pyrex is installed or not. If it is, then ``setuptools``
~~~~~~

will
 use it. If not, then ``setuptools`` will silently change the
``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx``
files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C
code generated by Pyrex, as well as your original ``.pyx`` files. This means
that you will probably want to include current ``.c`` files in your revision
control system, rebuilding them whenever you check changes in for the ``.pyx``
source files. This will ensure that people tracking your project in a revision
control system will be able to build it even if they don't have Pyrex
installed, and that your source releases will be similarly usable with or
without Pyrex.

Command Reference

.. _alias:

``alias`` - Define shortcuts for commonly used commands
===

Sometimes, you need to use the same commands over and
 over, but you can't
necessarily set them as defaults. For example, if you produce both development
snapshot releases and "stable" releases of a project, you may want to put
the distributions in different places, or use different ``egg_info`` tagging
options, etc. In these cases, it doesn't make sense to set the options in
a distutils configuration file, because the values of the options changed based
on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for
an arbitrary string of commands and options, using ``setup.py alias aliasname
expansion``, where aliasname is the name of the new alias, and the remainder of
the command line supplies its expansion. For example, this command defines
a sitewide alias called "daily", that sets various ``egg_info`` tagging
options::

  setup.py alias --global-config daily egg_info --tag-svn-revision \
     --tag-build=development

Once the alias is defined, it can then be used with other setup commands,
e.g.::

   setup.py daily bdist_egg   # generate a daily-build .egg file
  setup.py daily sdist   # generate a daily-build source distro

```
  setup.py daily sdist bdist_egg  # generate both
```

The above commands are interpreted as if the word ``daily`` were replaced with
``egg_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias *at most once* in a given command
line. This serves two purposes. First, if you accidentally create an alias
loop, it will have no effect; you'll instead get an error message about an
unknown command. Second, it allows you to define an alias for a command, that
uses that command. For example, this (project-local) alias::

```
  setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the ``bdist_egg`` command so that it always runs the ``rotate``
command afterwards to delete all but the newest egg file. It doesn't loop
indefinitely on ``bdist_egg`` because the alias is only expanded once when
used.

You
 can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

```
  setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The
default is to define or remove a project-specific alias, but you can use any of
the `configuration file options`_ (listed under the `saveopts`_ command, below)
to determine which distutils configuration file an aliases will be added to
(or removed from).

Note that if you omit the "expansion" argument to the ``alias`` command,
you'll get output showing that alias' current definition (and what
configuration file it's defined in). If you omit the alias name as well,
you'll get a listing of all current aliases along with their configuration
file locations.

``bdist_egg`` - Create a Python Egg for the project
==

This command generates a Python Egg (``.egg`` file) for the project.
  Python
Eggs are the preferred binary distribution format for EasyInstall, because they
are cross-platform (for "pure" packages), directly importable, and contain
project metadata including scripts and information about the project's
dependencies. They can be simply downloaded and added to ``sys.path``
directly, or they can be placed in a directory on ``sys.path`` and then

automatically discovered by the egg runtime system.

This command runs the `egg_info`_ command (if it hasn't already run) to update
the project's metadata (``.egg-info``) directory. If you have added any extra
metadata files to the ``.egg-info`` directory, those files will be included in
the new egg file's metadata directory, for use by the egg runtime system or by
any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just
use ``bdist_egg`` and you're done. But there are a few options that may
be occasionally useful:

``--dist-dir=DIR,
-d DIR``
  Set the directory where the ``.egg`` file will be placed. If you don't
  supply this, then the ``--dist-dir`` setting of the ``bdist`` command
  will be used, which is usually a directory named ``dist`` in the project
  directory.

``--plat-name=PLATFORM, -p PLATFORM``
  Set the platform name string that will be embedded in the egg's filename
  (assuming the egg contains C extensions). This can be used to override
  the distutils default platform name with something more meaningful. Keep
  in mind, however, that the egg runtime system expects to see eggs with
  distutils platform names, so it may ignore or reject eggs with non-standard
  platform names. Similarly, the EasyInstall program may ignore them when
  searching web pages for download links. However, if you are
  cross-compiling or doing some other unusual things, you might find a use
  for this option.

``--exclude-source-files``
  Don't include any modules' ``.py`` files in the egg,
 just compiled Python,
  C, and data files. (Note that this doesn't affect any ``.py`` files in the
  EGG-INFO directory or its subdirectories, since for example there may be
  scripts with a ``.py`` extension which must still be retained.) We don't
  recommend that you use this option except for packages that are being
  bundled for proprietary end-user applications, or for "embedded" scenarios
  where space is at an absolute premium. On the other hand, if your package
  is going to be installed and used in compressed form, you might as well
  exclude the source because Python's ``traceback`` module doesn't currently
  understand how to display zipped source code anyway, or how to deal with
  files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there
because they were copied from similar ``bdist`` commands used as an example for
creating this one. They may be useful for

testing and debugging, however,
which is why we kept them:

``--keep-temp, -k``
  Keep the contents of the ``--bdist-dir`` tree around after creating the
  ``.egg`` file.

``--bdist-dir=DIR, -b DIR``
  Set the temporary directory for creating the distribution. The entire
  contents of this directory are zipped to create the ``.egg`` file, after
  running various installation commands to copy the package's modules, data,
  and extensions here.

``--skip-build``
  Skip doing any "build" commands; just go straight to the
  install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"
==========

This command allows you to deploy your project's source for use in one or more
"staging areas" where it will be available for importing. This deployment is
done in such a way that changes to the project source are immediately available
in the staging area(s), without needing to run
 a build or install step after
each change.

The ``develop`` command works by creating an ``.egg-link`` file (named for the
project) in the given staging area. If the staging area is Python's
``site-packages`` directory, it also updates an ``easy-install.pth`` file so
that the project is on ``sys.path`` by default for all programs run using that
Python installation.

The ``develop`` command also installs wrapper scripts in the staging area (or
a separate directory, as specified) that will ensure the project's dependencies
are available on ``sys.path`` before running the project's source scripts.
And, it ensures that any missing project dependencies are available in the
staging area, by downloading and installing them if necessary.

Last, but not least, the ``develop`` command invokes the ``build_ext -i``
command to ensure any C extensions in the project have been built and are
up-to-date, and the ``egg_info`` command to ensure the project's metadata is
updated (so that the runtime and
 wrappers know what the project's dependencies
are). If you make any changes to the project's setup script or C extensions,

you should rerun the ``develop`` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning ``develop``, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the ``develop`` or ``test`` commands to keep the distribution updated.

Here are some of the options that the ``develop`` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use ``--exclude-scripts`` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the ``develop`` command,
if you need finer control
over the installation options for dependencies.

``--uninstall, -u``
Un-deploy the current project. You may use the ``--install-dir`` or ``-d`` option to designate the staging area. The created ``.egg-link`` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from ``easy-install.pth`` if the staging area is Python's ``site-packages`` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the ``--exclude-scripts`` (aka ``-x``) option when you run ``develop`` to deploy the project.

``--multi-version, -m``
"Multi-version" mode. Specifying this option prevents ``develop`` from adding an ``easy-install.pth`` entry for
the project(s) being deployed, and
if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use ``pkg_resources.require()`` to put it on ``sys.path``, or you are running a wrapper script generated by ``setuptools`` or EasyInstall. (In which case the wrapper script calls ``require()`` for you.)

Note that if you install to a directory other than ``site-packages``, this option is automatically in effect, because ``.pth`` files can only be used in ``site-packages`` (at least in Python 2.3 and 2.4). So, if you use the ``--install-dir`` or ``-d`` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

``--install-dir=DIR, -d DIR``

Set the installation directory (staging area). If this option is not directly specified
on the command line or in a distutils configuration
file, the distutils default installation location is used. Normally, this
will be the ``site-packages`` directory, but if you are using distutils
configuration files, setting things like ``prefix`` or ``install_lib``,
then those settings are taken into account when computing the default
staging area.

``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option
(via the command line or a configuration file), but you *have* supplied
an ``--install-dir`` (via command line or config file), then this option
defaults to the same directory, so that the scripts will be able to find
their associated package installation. Otherwise, this setting defaults
to the location where the distutils would normally install scripts, taking
any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This
is useful if you don't want to disturb
existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they
are already present in another directory on ``sys.path``. By default, if
a requirement can be met using a distribution that is already available in
a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated ``.egg-link`` file to use a specified relative path
to the source directory. This can be useful in circumstances where your
installation directory is being shared by code running under multiple
platforms (e.g. Mac and Windows) which have different absolute locations
for the code under development, but the same *relative* locations with
respect to the installation directory. If you use this option when
installing, you must supply the same relative path when uninstalling.

In addition to the above options,
the ``develop`` command also accepts all of
the same options accepted by ``easy_install``. If you've configured any
``easy_install`` settings in your ``setup.cfg`` (or other distutils config
files), the ``develop`` command will use them as defaults, unless you override
them in a ``[develop]`` section or on the command line.

``easy_install`` - Find and install packages
==========

This command runs the `EasyInstall tool
<easy_install.html>`_ for you. It is exactly
equivalent to running the ``easy_install`` command. All command line arguments
following this command are consumed and not processed further by the distutils,
so this must be the last command listed on the command line. Please see
the EasyInstall documentation for the options reference and usage examples.
Normally, there is no reason to use this command via the command line, as you
can just use ``easy_install`` directly. It's only listed here so that you know
it's a distutils command,
 which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your ``setup.cfg`` or other distutils config
 files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
==========

This command performs two operations: it updates a project's ``.egg-info``
metadata directory (used by the ``bdist_egg``, ``develop``, and ``test``
commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the ``sdist``, ``bdist_egg``, ``develop``, ``register``, and ``test`` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the``.egg-info/SOURCES.txt``
manifest file, which is used when you are building source
 distributions.)

In addition to writing the core egg metadata defined by ``setuptools`` and
required by ``pkg_resources``, this command can be extended to write other
metadata files as well, by defining entry points in the ``egg_info.writers``
group. See the section on `Adding new EGG-INFO Files`_ below for more details.
Note that using additional metadata writers may require you to include a
``setup_requires`` argument to ``setup()`` in order to ensure that the desired
writers are available on ``sys.path``.

Release Tagging Options

The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed

in the order shown, so if you use more than one, the requested tags will be added in the following order:

``--tag-build=NAME, -b NAME``
  Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the
 letters "a"
  through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

  If you have a default build tag set in your ``setup.cfg``, you can suppress it on the command line using ``-b ""`` or ``--tag-build=""`` as an argument to the ``egg_info`` command.

``--tag-svn-revision, -r``
  If the current directory is a Subversion checkout (i.e. has a ``.svn`` subdirectory, this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the ``svn info`` command.

  If the current directory is not a Subversion
 checkout, the command will
  look for a ``PKG-INFO`` file instead, and try to find the revision number from that, by looking for a "-rNNNN" string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

  If there is no ``PKG-INFO`` file, or the version number contained therein does not end with ``-r`` and a number, then ``-r0`` is used.

``--no-svn-revision, -R``
  Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in ``setup.cfg``.

``--tag-date, -d``
  Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

``--no-date, -D``
  Don't include a date stamp in the version number. This option is included so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version
 number used for source and
binary distributions of your project, you should first make sure that you know
how the resulting version numbers will be interpreted by automated tools
like EasyInstall. See the section above on `Specifying Your Project's
Version`_ for an explanation of pre- and post-release tags, as well as tips on
how to choose and verify a versioning scheme for your your project.)

For advanced uses, there is one other option that can be set, to change the
location of the project's ``.egg-info`` directory. Commands that need to find
the project's source directory or metadata should get it from this setting:

Other ``egg_info`` Options

``--egg-base=SOURCEDIR, -e SOURCEDIR``
  Specify the directory that should contain the .egg-info directory. This
  should normally be the root of your project's source tree (which is not
  necessarily the same as your project directory; some projects use a ``src``
  or ``lib`` subdirectory as the source
 root). You should not normally need
  to specify this directory, as it is normally determined from the
  ``package_dir`` argument to the ``setup()`` function, if any. If there is
  no ``package_dir`` set, this option defaults to the current directory.

``egg_info`` Examples

Creating a dated "nightly build" snapshot egg::

  python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default
tags are specified in ``setup.cfg``::

  python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that ``egg_info`` must always appear on the command line *before* any
commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run ``easy_install`` or old-style installation
==

The setuptools ``install`` command is basically a shortcut to run the
``easy_install`` command on the current
project. However, for convenience
in creating "system packages" of setuptools-based projects, you can also
use this option:

``--single-version-externally-managed``
  This boolean option tells the ``install`` command to perform an "old style"
  installation, with the addition of an ``.egg-info`` directory so that the
  installed project will still have its metadata available and operate
  normally. If you use this option, you *must* also specify the ``--root``
  or ``--record`` options (or both), because otherwise you will have no way
  to identify and remove the installed files.

This option is automatically in effect when ``install`` is invoked by another
distutils command, so that commands like ``bdist_wininst`` and ``bdist_rpm``
will create system packages of eggs. It is also automatically in effect if
you specify the ``--root`` option.

``install_egg_info`` - Install an ``.egg-info`` directory in ``site-packages``
==========

Setuptools
runs this command as part of ``install`` operations that use the
``--single-version-externally-managed`` options. You should not invoke it
directly; it is documented here for completeness and so that distutils
extensions such as system package builders can make use of it. This command
has only one option:

``--install-dir=DIR, -d DIR``
  The parent directory where the ``.egg-info`` directory will be placed.
  Defaults to the same as the ``--install-dir`` option specified for the
  ``install_lib`` command, which is usually the system ``site-packages``
  directory.

This command assumes that the ``egg_info`` command has been given valid options
via the command line or ``setup.cfg``, as it will invoke the ``egg_info``
command and use its options to locate the project's source ``.egg-info``
directory.

.. _rotate:

``rotate`` - Delete outdated distribution files
==========

As you develop new versions
 of your project, your distribution (``dist``)
directory will gradually fill up with older source and/or binary distribution
files. The ``rotate`` command lets you automatically clean these up, keeping
only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
  Comma-separated list of glob patterns to match. This option is *required*.
  The project name and ``-*`` is prepended to the supplied patterns, in order
  to match only distributions belonging to the current project (in case you
  have a shared distribution directory for multiple projects). Typically,
  you will use a glob pattern like ``.zip`` or ``.egg`` to match files of
  the specified type. Note that each supplied pattern is treated as a
  distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
  Number of matching distributions to keep. For each group of files
  identified by a pattern specified with the ``--match``
 option, delete all
  but the COUNT most-recently-modified files in that group. This option is
  required.

``--dist-dir=DIR, -d DIR``
  Directory where the distributions are. This defaults to the value of the
  ``bdist`` command's ``--dist-dir`` option, which will usually be the
  project's ``dist`` subdirectory.

Example 1: Delete all .tar.gz files from the distribution directory, except
for the 3 most recently modified ones::

  setup.py rotate --match=.tar.gz --keep=3

Example 2: Delete all Python 2.3 or Python 2.4 eggs from the distribution
directory, except the most recently modified one for each Python version::

  setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:

``saveopts`` - Save used options to a configuration file
==

Finding and editing ``distutils`` configuration files can be a pain, especially
since you also have to translate the configuration options from command-line
form
 to the proper configuration file format. You can avoid these hassles by
using the ``saveopts`` command. Just add it to the command line to save the

options you used. For example, this command builds the project using
the ``mingw32`` C compiler, then saves the --compiler setting as the default
for future builds (even those run implicitly by the ``install`` command)::

  setup.py build --compiler=mingw32 saveopts

The ``saveopts`` command saves all options for every command specified on the
command line to the project's local ``setup.cfg`` file, unless you use one of
the `configuration file options`_ to change where the options are saved. For
example, this command does the same as above, but saves the compiler setting
to the site-wide (global) distutils configuration::

  setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the ``saveopts`` command on the
command line; it will still save all the options specified for all commands.
For
 example, this is another valid way to spell the last example::

  setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of
where ``saveopts`` is placed on the command line.

Configuration File Options

Normally, settings such as options and aliases are saved to the project's
local ``setup.cfg`` file. But you can override this and save them to the
global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
  Save settings to the global ``distutils.cfg`` file inside the ``distutils``
  package directory. You must have write access to that directory to use
  this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
  Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or
  ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option
  with ``-g`` or ``-f``.

``--filename=FILENAME,
 -f FILENAME``
  Save settings to the specified configuration file to use. You can't
  combine this option with ``-g`` or ``-u``. Note that if you specify a
  non-standard filename, the ``distutils`` and ``setuptools`` will not
  use the file's contents. This option is mainly included for use in

testing.

These options are used by other ``setuptools`` commands that modify
configuration files, such as the `alias`_ and `setopt`_ commands.

.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file
==========

This command is mainly for use by scripts, but it can also be used as a quick
and dirty way to change a distutils configuration option without having to
remember what file the options are in and then open an editor.

Example 1. Set the default C compiler to ``mingw32`` (using long option
names)::

  setup.py setopt --command=build --option=compiler --set-value=mingw32

**Example
 2**. Remove any setting for the distutils default package
installation directory (short option names)::

  setup.py setopt -c install -o install_lib -r

Options for the ``setopt`` command:

``--command=COMMAND, -c COMMAND``
  Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
  The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
  The value to set the option to. Not needed if ``-r`` or ``--remove`` is
  set.

``--remove, -r``
  Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file
options`_ (listed under the `saveopts`_ command, above) to determine which
distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite
==========

When doing test-driven development, or running automated builds that need
testing
 before they are deployed for downloading or use, it's often useful
to be able to run a project's unit tests without actually deploying the project
anywhere, even using the ``develop`` command. The ``test`` command runs a
project's unit tests without actually deploying it, by temporarily putting the
project's source on ``sys.path``, after first running ``build_ext -i`` and
``egg_info`` to ensure that any C extensions and project metadata are
up-to-date.

To use this command, your project's tests must be wrapped in a ``unittest``
test suite by either a function, a ``TestCase`` class or method, or a module
or package containing ``TestCase`` classes. If the named suite is a module,
and the module has an ``additional_tests()`` function, it is called and the
result (which must be a ``unittest.TestSuite``) is added to the tests to be
run. If the named suite is a package, any submodules and subpackages are
recursively added to the overall test suite. (Note: if your project specifies
a
 ``test_loader``, the rules for processing the chosen ``test_suite`` may
differ; see the `test_loader`_ documentation for more details.)

Note that many test systems including ``doctest`` support wrapping their
non-``unittest`` tests in ``TestSuite`` objects. So, if you are using a test
package that does not support this, we suggest you encourage its developers to
implement test suite support, as this is a convenient and standard way to
aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the ``unittest``
package's text test runner, but you can get the "quiet" mode (just dots) if
you supply the ``-q`` or ``--quiet`` option, either as a global option to
the setup script (e.g. ``setup.py -q test``) or as an option for the ``test``
command itself (e.g. ``setup.py test -q``). There is one other option
available:

``--test-suite=NAME, -s NAME``
  Specify the test suite (or module, class, or method) to be run
  (e.g.
 ``some_module.test_suite``). The default for this option can be
  set by giving a ``test_suite`` argument to the ``setup()`` function, e.g.::

      setup(
          # ...
          test_suite = "my_package.tests.test_all"
)

If you did not set a ``test_suite`` in your ``setup()`` call, and do not
provide a ``--test-suite`` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI
===

The ``upload`` command is implemented and `documented
<https://docs.python.org/3.1/distutils/uploading.html>`_
in distutils.

Setuptools augments the ``upload`` command with support
for `keyring <https://pypi.python.org/pypi/keyring>`_,
allowing the password to be stored in a secure
location and not in plaintext in the .pypirc file. To use
keyring, first install keyring and set the password for
the relevant repository, e.g.::

  python -m keyring set <repository> <username>
   Password for '<username>' in '<repository>': ********

Then, in .pypirc, set the repository configuration as normal,
but omit the password. Thereafter, uploads will use the
password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI
==

PyPI now supports uploading project documentation to the dedicated URL
https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a
documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version
must already be registered with PyPI, using the distutils ``register``
command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the
subdirectory ``docs``, e.g.::

```
 Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
|   |-- build
|   |
`-- html
|   |   |   |-- index.html
|   |   |   `-- tips_tricks.html
|   |-- conf.py
|   |-- index.txt
|   `-- tips_tricks.txt
```

You can simply pass the documentation directory path to the ``upload_docs``
command::

```
  python setup.py upload_docs --upload-dir=docs/build/html
```

If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the
``build_sphinx`` command to generate uploadable documentation.
For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_
must be installed in the same environment as distribute.

As with other ``setuptools``-based commands, you can define useful
defaults in the ``setup.cfg`` of your Python project, e.g.:

.. code-block:: ini

```
  [upload_docs]
  upload-dir = docs/build/html
```

The ``upload_docs`` command has the following options:

``--upload-dir``
  The directory to be uploaded to the repository.

``--show-response``
  Display the full response text from server; this is useful for debugging
  PyPI problems.

``--repository=URL,
 -r URL``
  The URL of the repository to upload to. Defaults to
  https://pypi.python.org/pypi (i.e., the main PyPI installation).

Extending and Reusing Setuptools

Creating ``distutils`` Extensions
==========

It can be hard to add new commands or setup arguments to the distutils. But
the ``setuptools`` package makes it a bit easier, by allowing you to distribute
a distutils extension as a separate project, and then have projects that need
the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new
commands and ``setup()`` arguments just by defining "entry points". These
are mappings from command or argument names to a specification of where to
import a handler from. (See the section on `Dynamic Discovery of Services and
Plugins`_ above for some more background on entry points.)

Adding Commands

You
can add new ``setup`` commands by defining entry points in the
``distutils.commands`` group. For example, if you wanted to add a ``foo``
command, you might add something like this to your distutils extension
project's setup script::

```
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some_module`` is
a ``setuptools.Command`` subclass.)

Once a project containing such entry points has been activated on ``sys.path``,
(e.g. by running "install" or "develop" with a site-packages installation
directory) the command(s) will be available to any ``setuptools``-based setup
scripts. It is not necessary to use the ``--command-packages`` option or
to monkeypatch the ``distutils.command`` package to install your commands;
``setuptools`` automatically adds a wrapper to the distutils to search for
entry
points in the active distributions on ``sys.path``. In fact, this is
how setuptools' own commands are installed: the setuptools project's setup

script defines entry points for them!

Adding ``setup()`` Arguments

Sometimes, your commands may need additional arguments to the ``setup()``
call. You can enable this by defining entry points in the
``distutils.setup_keywords`` group. For example, if you wanted a ``setup()``
argument called ``bar_baz``, you might add something like this to your
distutils extension project's setup script::

```
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called
to validate the ``setup()`` argument, if it's supplied.
 The ``Distribution``
object will have the initial value of the attribute set to ``None``, and the
validation function will only be called if the ``setup()`` call sets it to
a non-None value. Here's an example validation function::

```
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1"""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr,value)
        )
```

Your function should accept three arguments: the ``Distribution`` object,
the attribute name, and the attribute value. It should raise a
``DistutilsSetupError`` (from the ``distutils.errors`` module) if the argument
is invalid. Remember, your function will only be called with non-None values,
and the default value of arguments defined this way is always None. So, your
commands should always be prepared for the possibility that the attribute will
be ``None`` when they access it later.

If more than

one active distribution defines an entry point for the same
``setup()`` argument, *all* of them will be called. This allows multiple
distutils extensions to define a common argument, as long as they agree on
what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch
the distutils ``Distribution`` class in order to add your arguments; it is
sufficient to define the entry points in your extension, as long as any setup
script using your extension lists your project in its ``setup_requires``
argument.

Adding new EGG-INFO Files

Some extensible applications or frameworks may want to allow third parties to
develop plugins with application or framework-specific metadata included in
the plugins' EGG-INFO directory, for easy access via the ``pkg_resources``
metadata API. The easiest way to allow this is to create a distutils extension
to be used from the plugin projects' setup scripts (via ``setup_requires``)
that
defines a new setup keyword, and then uses that data to write an EGG-INFO
file when the ``egg_info`` command is run.

The ``egg_info`` command looks for extension points in an ``egg_info.writers``
group, and calls them to write the files. Here's a simple example of a
distutils extension defining a setup argument ``foo_bar``, which is a list of
lines that will be written to ``foo_bar.txt`` in the EGG-INFO directory of any
project that uses the argument::

```
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```

This simple example makes use of two utility functions defined by setuptools
for its own use: a routine to validate that a setup keyword is a sequence of
strings, and another one that looks up a setup argument and writes
it to
a file. Here's what the writer utility looks like::

```
  def write_arg(cmd, basename, filename):
      argname = os.path.splitext(basename)[0]
      value = getattr(cmd.distribution, argname, None)
      if value is not None:
          value = '\n'.join(value)+'\n'
      cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking three arguments: a ``egg_info`` command instance, the basename of the file to write (e.g. ``foo_bar.txt``), and the actual full filename that should be written to.

In general, writer functions should honor the command object's ``dry_run`` setting when writing files, and use the ``distutils.log`` object to do any console output. The easiest way to conform to this requirement is to use the ``cmd`` object's ``write_file()``, ``delete_file()``, and ``write_or_delete_file()`` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding Support for Revision Control Systems

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for ``setuptools`` to find files tracked by another revision control system, you can do so by adding an entry point to the ``setuptools.file_finders`` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

.. code-block:: python

```
  def find_files_for_foobar(dirname):
      # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this::

```
  entry_points = {
```

```
      "setuptools.file_finders": [
         "foobar = my_foobar_module:find_files_for_foobar"
      ]
   }
```

Then, anyone who wants to use your plugin can simply install it, and their
local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that
simply use the other source control system, or to specify the plugins in
``setup_requires``. When you create a source distribution with the ``sdist``
command, setuptools automatically records what files were found in the
``SOURCES.txt`` file. That way, recipients of source distributions don't need
to have revision control at all. However, if someone is working on a package
by checking out with that system, they will need the same plugin(s) that the
original author is using.

A few important points for
 writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the
 passed-in directory name. Absolute paths are NOT allowed, nor are relative
 paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name,
 meaning the current directory. You MUST NOT convert this to a dot; just
 yield relative paths. So, yielding a subdirectory named ``some/dir`` under
 the current directory should NOT be rendered as ``./some/dir`` or
 ``/somewhere/some/dir``, but *always* as simply ``some/dir``

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully
 with the absence of needed programs (i.e., ones belonging to the revision
 control system itself. It *may*, however, use ``distutils.log.warn()`` to
 inform the user of the missing program(s).

Subclassing ``Command``

Sorry, this section isn't written yet, and
 neither is a lot of what's below
this point.

XXX

Reusing ``setuptools`` Code
==========

``ez_setup``

XXX

``setuptools.archive_util``

XXX

``setuptools.sandbox``

XXX

``setuptools.package_index``

XXX

Mailing List and Bug Tracker
============================

Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/docs/setuptools.txt

1.518 iproute 4.19.0

1.518.1 Available under license :

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1.529 ntp 4.2.8p15

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clock driver

22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig

Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver

33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
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1.530 ipmi-tool 1.8.11

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*/

Found in path(s):
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.h

* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/extern.h
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*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/config.h
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*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.h
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```
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Found in path(s):
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.1.in
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.\"-- */

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* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.8.in
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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 0.49
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
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

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* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec
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*
* -- */

Found in path(s):
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c
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* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/main.c
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.c
*
 /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.c
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* -- */

Found in path(s):
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.h
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.c
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/misc.c

1.534 libasyncns 0.8

1.534.1 Available under license :

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whether or not they are linked directly with the Library itself.

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

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of these things:

a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at least
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Subsection 6a, above, for a charge no more than the cost of
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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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1.535 syslog-ng 3.16.1

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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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1.536 gdkpixbuf 2.24.1

1.536.1 Available under license :

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Version 2.1, February 1999

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1.542 pkix-ssh 12.1

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1)
```
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 *
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 * can be used freely for any purpose.  Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
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```

[Tatu continues]
```
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- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

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1.545 kexec-tools 2.0.17

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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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        Version 2, June 1991

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Kirk Lapray <kirk.lapray@gmail.com>
 for the or51211 and or51132 frontend drivers, and
 for merging the nxt2002 and nxt2004 modules into a
 single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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/* 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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like to be mentioned)
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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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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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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
 for CyberLogin for Linux which allows logging onto EON
 (in case you are wondering where CyberLogin is, EON changed its login
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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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FlashPoint Driver Developer's Kit

Version 1.0

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1.550 glib 2.60.4

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1.551 libarchive 3.4.3

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1.552 tftp-hpa 5.2

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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

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Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c
No license file was found, but licenses were detected in source scan.

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Found
in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c
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

* 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-tar-bz2/tftp-hpa-5.2/tftp.spec.in

1.553 sysklogd 1.5.0

1.553.1 Available under license :

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1.554 rng-tools 5

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1.555 libasyncns 0.8

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1.556 ipmiutil 3.1.3

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1.557 libconfig 1.5

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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Daniel Marjamdki - Enhancements & bugfixes.
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@c \input texinfo.tex @c -*-texinfo-*-
@c
@c %**start of header

@c All text is ignored before the setfilename.
@setfilename LGPL.info

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@sp 1

@center Preamble
@sp 1

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work,
a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the ``Lesser'' General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

@page

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A ``library'' means a collection of software functions and/or data
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means either the Library or any derivative work under copyright law:
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limitation in the term ``modification''.)

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

Activities other than copying, distribution and modification are not

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

@sp
1
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@enumerate a

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@sp 1
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You must cause the files modified to carry prominent notices stating that you changed the
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must make a good faith effort to ensure that, in the event an
application does not supply such function or table, the facility still
operates, and performs whatever part of its purpose remains meaningful.

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

@end enumerate

These requirements apply
 to the modified work as a whole. If
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the Library, the distribution of the whole must be on the terms of this
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collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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Once this change is made in a given copy, it is irreversible for that
copy, so the ordinary GNU General Public License applies to all

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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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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.

@sp 1
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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.

@sp 1
@item
As an exception to the Sections above, you may also combine or link a
``work that uses the Library'' with the Library to produce a work
containing portions of the Library, and distribute that work under terms
of your choice, provided that the terms permit modification of the work
for the customer's own use and reverse engineering for debugging such
modifications.

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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:

@enumerate a

@sp 1
@item
Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever changes were used in the
work (which must be distributed under Sections 1 and 2 above); and, if
the work is an executable linked with the Library, with the complete
machine-readable ``work that uses the Library'', as object code and/or
source code, so that the user can modify the Library and then relink to
produce a modified executable containing the modified Library. (It is
understood that the user who changes the contents of definitions files
in the Library will not necessarily be able to recompile the application
to use the modified definitions.)

@sp 1
@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.

@sp 1
@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.

@sp 1
@item
If distribution of the work is made by offering access to copy from a
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materials from the same place.

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

It may happen that this requirement contradicts the license restrictions
of other proprietary libraries that do not normally accompany the
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not covered by this License, and distribute such a combined library,
provided that the separate distribution of the work based on the Library
and of the other library facilities is otherwise permitted, and provided
that you do these two things:

@enumerate

a

@sp 1
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Accompany the combined library with a copy of the same work based on the
Library, uncombined with any other library facilities. This must be
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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
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by the new Info-ZIP license. For details, please read the acompaning
file LICENSE. The terms and conditions in this license supersede the
copyright conditions of the contributions by Igor Mandrichenko
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion
core routines, previously put into the public domain). All these
Info-ZIP contributors (or "primary" authors) have permitted us to
replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip
5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is
needed, the unreduce code copyrighted by Samuel H. Smith is available
as a separate distribution (the restricted copyright of this code is
cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code
(macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
  * (Apple Macintosh Developer Technical Support Emeritus)
  * Copyright  1992-1998
Apple Computer, Inc.
  * Portions copyright  1995 Jim Luther
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  * license terms:
  *
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  *          responsibility for its operation is 100% yours.
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  *          having made changes. If you're going to
  *          redistribute the source, we require that you make
  *          it clear in the source that the code was descended
  *          from Apple Sample Code, but that you've made
  *          changes."
```

The usage terms of this copyright note are compatible with the

Info-ZIP license, they do not add further restrictions.

The following
copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

```
  *  MacBinaryIII.h
  *
  *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  *  Basic encoding and decoding of Macintosh files to the
  *  MacBinary III spec.
  * ---------------------------------------------------------------------
  * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
  * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
  * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

This copyright note does not contain any usage terms. So, we assume
that this code is freely reusable until we are proved wrong...

The remaining copyright notes have been superseeded by the new
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original authors. They are cited here for historical reasons,
only:

The following copyright applies to the full-featured unreduce.c
(now distributed separately):

```
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  *
  * Do not distribute modified versions without my permission.
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  * If you use this in your own program you must distribute source code.
  * Do not use any of this in a commercial product.
```

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten

and by default
no longer contains any of Mr. Smith's code, Info-ZIP
remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

```
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```

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```
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  * are made.)  Corporate legal staff (like at IBM :-) ) who have
  * problems understanding this can contact me through Zip-Bugs...
```

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```
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  * copyright notice is retained.
```

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CE GUI port, ``Pocket
UnZip,'' distributed with UnZip version 5.3 and later:

```
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  * written by the Info-ZIP group, are copyrighted 1997 by Steve P.
  * Miller.  The product "Pocket UnZip" itself is property of the
  * author and cannot be altered in any way without written consent
  * from Steve P. Miller.
```

The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

1.559 hunspell 1.7.0

1.559.1 Available under license :

```
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*
*
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* and affix
compression in general, please see:
* http://www.cs.ucla.edu/ficus-members/geoff/ispell.html
* (the home page for ispell)
*
* An almost complete rewrite of MySpell for use by
* the Mozilla project has been developed by David Einstein
* (Deinst@world.std.com). David and I are now
* working on parallel development tracks to help
* our respective projects (Mozilla and OpenOffice.org
* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.
*
* Special thanks also go to La'szlo' Ne'meth
* <nemethl@gyorsposta.hu> who is the author of the
* Hungarian dictionary and who developed and contributed
* the code to support compound words in MySpell
* and fixed numerous problems with the encoding
* case conversion tables.
*
*/

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Version 2.1, February 1999

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1.560 fcgi 2.4.0-25.e17

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1.561 xterm 330

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1.562 pam 1.1.8-18.el7

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1.565 libxfont 1:1.3.3-2

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

"Source code" for a work means the preferred form of the work for

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

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

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

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

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

a) The modified work
must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary.
Here is a sample; alter the names:

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

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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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

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

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that

there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

In other cases, permission to use a particular library in non-free

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

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

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

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limitation in the term "modification".)

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such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If

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

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

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

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

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

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

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

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

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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1.577 mesa 18.3.4

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libfreedreno_layout = static_library(
 'freedreno_layout',
 [
   'fd5_layout.c',
   'fd6_layout.c',
   'freedreno_layout.c',
 ],
 include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
 c_args : [no_override_init_args],
 gnu_symbol_visibility : 'hidden',

```
 dependencies : idep_nir_headers,
 build_by_default : false,
)

foreach major : ['5', '6']
 test(
  'fd' + major + '_layout',
  executable(
   'fd' + major + '_layout',
   [
    'fd_layout_test.c',
    'fd' + major + '_layout_test.c',
    freedreno_xml_header_files,
   ],
   link_with: libfreedreno_layout,
   dependencies : idep_mesautil,
   include_directories: [
    inc_include,
    inc_src,
    inc_mapi,
    inc_mesa,
    inc_gallium,
    inc_gallium_aux,
    inc_freedreno],
  ),
  suite : ['freedreno'],
 )
endforeach
```

1.578 libsm 1.2.2

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1.579 pango 1.6.0

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1.580 libffi 3.1.1

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1.583 sg3-utils 1.37-12.el7

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1.585 libxcursor 1.1.13

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1.586 mini-xml 2.6

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1.587 libfastjson 0.99.8

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1.591 nfs-utils 0.25

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1.592 time 1.9

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1.594 libsepol 2.6

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1.595 time 1.7

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./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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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
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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1.608 libnl3 3.2.21-10.el7

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino
<jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that

process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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

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

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

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

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

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

</xsl:stylesheet>

<!--

 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.616 curl 7.43.0

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==========

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1.619 curl 7.54.0

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1.624 sudo 1.9.5

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Ackeret, Matt
Adler, Mark
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Boyce, Keith Garry
Brantley, Michael
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The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

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1.625 sysv-init 2.88

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*
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1.626 shared-mime-info 1.1

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023
bsd.img
Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux
__ts_dev__2		4096	20479	8192	a5	FreeBSD

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout----------

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
c:	4096	20479	16384	unused	0	0	
d:	0						
	16064	16065	unused	0	0		

BSD disklabel command (m for help):
Command (m for help):
---

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout----------

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

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
a:	4096	6144	2049	4.2BSD	0	0	0
c:	4096	20479	16384	unused	0	0	
d:	0	16064	16065	unused	0	0	

BSD disklabel command (m for help):
Command (m for help):

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

Command (m for help):

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

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*/
```

1.628 acl 2.2.52

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1.630 jcommon 1.0.12.jar.pack

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1.636 tdb 1.44.3

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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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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1.639 pcre 8.44

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1.640 xorg-server 1.14.2

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1.648 talloc 2.1.14

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/*
 Samba Unix SMB/CIFS implementation.

 C utilities for the pytalloc test suite.
 Provides the "_test_pytalloc" Python module.

 NOTE: Please read talloc_guide.txt for full documentation

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1.656 tiny-xml 0.9.5-5.3.el6

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/** @mainpage

<h1> TinyXML </h1>

TinyXML is a simple, small, C++ XML parser that can be easily
integrated into other programs.

<h2> What it does. </h2>

In brief, TinyXML parses an XML document, and builds from that a
Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create
your own document markups. Where HTML does a very good job of marking
documents for browsers, XML allows you to define any kind of document
markup, for example a document that describes a "to do" list for an
organizer application. XML is a very structured and convenient format.
All those random file formats created to store application data can
all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to
read spec is at
http://www.w3.org/TR/2004/REC-xml-20040204/.
An intro to XML
(that I really like) can be found at
http://skew.org/xml/tutorial.

There are different ways to access and interact with XML data.
TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed
into a C++ objects that can be browsed and manipulated, and then
written to disk or another output stream. You can also construct an XML document
from scratch with C++ objects and write this to disk or another output
stream.

TinyXML is designed to be easy and fast to learn. It is two headers
and four cpp files. Simply add these to your project and off you go.
There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license,
so you can use it in open source or commercial code. The details
of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and
compliant XML output. TinyXML should compile on
any reasonably C++
compliant system. It does not rely on exceptions or RTTI. It can be
compiled with or without STL support. TinyXML fully supports
the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs
(eXtensible Stylesheet Language.) There are other parsers out there

(check out www.sourceforge.org, search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

@verbatim
<!DOCTYPE Archiv [
<!ELEMENT Comment (#PCDATA)>
]>
@endverbatim

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site (www.sourceforge.net/projects/tinyxml). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

 TinyXPath (http://tinyxpath.sourceforge.net). TinyXPath is a small footprint XPath syntax decoder, written in C++.
 TinyXML++ (http://code.google.com/p/ticpp/). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.

<h2>

Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML
uses the std::string class, and fully supports std::istream, std::ostream,
operator<<, and operator>>. Many API methods have both 'const char*' and
'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All
the string classes are implemented by TinyXML itself. API methods
all use the 'const char*' form for input.

Use the compile time #define:

TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler,
or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment
variable TINYXML_USE_STL=YES/NO will control STL compilation. In the
Windows project file, STL and non STL targets are provided. In your project,
It's probably easiest to add the line "#define TIXML_USE_STL" as the first
line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing
to manipulate XML files in any language. TinyXML
also supports "legacy mode" - the encoding used before UTF-8 support and
probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However,
by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML
can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

 If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf)
begin the file or data stream, TinyXML will read it as UTF-8.
 If the declaration tag is read, and it has an encoding="UTF-8", then
TinyXML will read it as UTF-8.
 If the declaration tag is read, and it has no encoding specified, then TinyXML will
read it as UTF-8.
 If the declaration tag is read, and it has an encoding="something else", then TinyXML
will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's

not clear what that mode does exactly, but old content should keep working.
 Until one of the above criteria is met, TinyXML runs in Legacy Mode.

What happens if the encoding is incorrectly set or detected? TinyXML will try
to read and pass through text seen as improperly encoded. You may get some strange results or
mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile(TIXML_ENCODING_LEGACY) or
LoadFile(filename, TIXML_ENCODING_LEGACY). You may force it to use legacy mode all
the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may
force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You
don't need to be aware of UTF-8 or change your code in any way. You can think
of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!
TinyXML
does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time.
It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding
of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can
handle all languages, at the same time, as long as the XML is encoded
in UTF-8. That can be a little tricky, older programs and operating systems
tend to use the "default" or "traditional" code page. Many apps (and almost all
modern ones) can output UTF-8, but older or stubborn (or just broken) ones
still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding.
Text encoded as SHIFT-JIS can not be read by TinyXML.
A good text editor can import SHIFT-JIS and then save as UTF-8.

The Skew.org link does a great
job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English,
Spanish, Russian,
and Simplified Chinese. (Hopefully they are translated correctly). The file
"utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that
if you don't have the correct fonts (Simplified Chinese or Russian) on your
system, you won't see output that matches the GIF file even if you can parse
it correctly. Also note that (at least on my Windows machine) console output
is in a Western code page, so that Print() or printf() cannot correctly display
the file. This is not a bug in TinyXML - just an OS issue. No data is lost or
destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>
TinyXML recognizes the pre-defined "character entities", meaning special
characters. Namely:

@verbatim
 & &
 < <
 > >
 " "
 ' '
@endverbatim

These are recognized when the XML document is read, and translated to there
UTF-8 equivalents. For instance, text with the XML of:

@verbatim
 Far & Away
@endverbatim

will have the Value()
 of "Far & Away" when queried from the TiXmlText object,
and will be written back to the XML stream/file as an ampersand. Older versions
of TinyXML "preserved" character entities, but the newer versions will translate
them into characters.

Additionally, any character can be specified by its Unicode code point:
The syntax " " or " " are both to the non-breaking space characher.

<h3> Printing </h3>
TinyXML can print output in several different ways that all have strengths and limitations.

- Print(FILE*). Output to a std-C stream, which includes all C files as well as stdout.
 - "Pretty prints", but you don't have control over printing options.
 - The output is streamed directly to the FILE object, so there is no memory overhead
   in the TinyXML code.
 - used by Print() and SaveFile()

- operator<<. Output to a c++ stream.
 - Integrates with standart C++ iostreams.
 - Outputs in "network printing" mode without line breaks. Good for network transmission
   and moving XML
 between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.
 - API is less concise
 - Future printing options will be put here.
 - Printing may change slightly in future versions as it is refined and expanded.

<h3> Streams </h3>
With TIXML_USE_STL on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:
- based on FILE*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:
- based on FILE*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:
- based on std::ostream
- operator<<

Generates condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:
- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>
The world simply does not agree on whether white space should be kept, or condensed.
For example, pretend the '_' is a space, and look at "Hello____world". HTML, and at least some XML parsers, will interpret this as "Hello_world". They condense white

space. Some XML parsers do not, and will leave it as "Hello____world". (Remember
to keep pretending the _ is a space.) Others suggest that __Hello___world__ should become
Hello___world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the
first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace(bool) to set the desired behavior.
The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace(bool)
before making any calls to Parse XML data, and I don't recommend changing it after
it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check
for null returns from method calls. An error safe implementation can
generate a lot of code like:

@verbatim
TiXmlElement* root = document.FirstChildElement(
 "Document");
if (root)
{
 TiXmlElement* element = root->FirstChildElement("Element");
 if (element)
 {
  TiXmlElement* child = element->FirstChildElement("Child");
  if (child)
  {
   TiXmlElement* child2 = child->NextSiblingElement("Child");
   if (child2)
   {
    // Finally do something useful.
@endverbatim

Handles have been introduced to clean this up. Using the TiXmlHandle class,
the previous code reduces to:

@verbatim
TiXmlHandle docHandle(&document);
TiXmlElement* child2 = docHandle.FirstChild("Document").FirstChild("Element").Child("Child", 1
).ToElement();
if (child2)
{
 // do something useful
@endverbatim

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>
Being able to track nodes and attributes back to their origin location
in source files can be very important for some applications. Additionally,
knowing where parsing errors occured in the original source can be very
time
saving.

TinyXML can tracks the row and column origin of all nodes and attributes
in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return
the origin of the node in the source text. The correct tabs can be
configured in TiXmlDocument::SetTabSize().

<h2> Using and Installing </h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided.
Simply compile and run. It will write the file demotest.xml to your
disk and generate output on the screen. It also tests walking the
DOM by printing out the number of nodes found using different
techniques.

The Linux makefile is very generic and runs on many systems - it
is currently tested on mingw and
MacOSX. You do not need to run 'make depend'. The dependecies have been
hard coded.

<h3>Windows project file for VC6</h3>

tinyxml: tinyxml library, non-STL
tinyxmlSTL: tinyxml library, STL
tinyXmlTest: test app, non-STL
tinyXmlTestSTL: test app,
STL

<h3>Makefile</h3>
At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in
the makefile.

In the tinyxml directory, type "make clean" then "make". The executable
file 'xmltest' will be created.

<h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

<h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:
@verbatim
 <?xml version="1.0" standalone=no>
 <!-- Our to do list data -->
 <ToDo>
  <Item priority="1"> Go to the <bold>Toy store!</bold></Item>
  <Item priority="2"> Do bills</Item>
 </ToDo>
@endverbatim

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:
@verbatim
 TiXmlDocument
 doc("demo.xml");
 doc.LoadFile();
@endverbatim

And its ready to go. Now lets look at some lines and how they relate to the DOM.

@verbatim
<?xml version="1.0" standalone=no>
@endverbatim

 The first line is a declaration, and gets turned into the
 TiXmlDeclaration class. It will be the first child of the
 document node.

 This is the only directive/special tag parsed by TinyXML.
 Generally directive tags are stored in TiXmlUnknown so the
 commands wont be lost when it is saved back to disk.

@verbatim
<!-- Our to do list data -->

@endverbatim

A comment. Will become a TiXmlComment object.

@verbatim
<ToDo>
@endverbatim

The "ToDo" tag defines a TiXmlElement object. This one does not have
any attributes, but does contain 2 other elements.

@verbatim
<Item priority="1">
@endverbatim

Creates another TiXmlElement which is a child of the "ToDo" element.
This element has 1 attribute, with the name "priority" and the value
"1".

@verbatim
Go to the
@endverbatim

A TiXmlText.
This is a leaf node and cannot contain other nodes.
It is a child of the "Item" TiXmlElement.

@verbatim
<bold>
@endverbatim

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:
@verbatim
TiXmlDocument "demo.xml"
 TiXmlDeclaration "version='1.0'" "standalone=no"
 TiXmlComment " Our to do list data"
 TiXmlElement "ToDo"
  TiXmlElement "Item" Attribtutes: priority = 1
   TiXmlText "Go to the "
   TiXmlElement "bold"
    TiXmlText "Toy store!"
  TiXmlElement "Item" Attributes: priority=2
   TiXmlText "Do bills"

@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox'
configuration file.

<h2> License </h2>

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<h2> References </h2>

The World Wide Web Consortium is the definitive standard body for
XML, and their web pages contain huge amounts of information.

The definitive spec:
http://www.w3.org/TR/2004/REC-xml-20040204/

I also recommend "XML Pocket Reference" by Robert Eckstein and published by
OReilly...the book that got
 the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and
encouragement. It all helps, and makes this project fun. A special thanks
to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here
we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still
in the documentation.) Lee reviews changes and releases new versions,
with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you
use TinyXML. Hopefully you will enjoy it and find it useful.
Please post questions, comments, file bugs, or contact us at:

www.sourceforge.net/projects/tinyxml

Lee Thomason, Yves Berquin, Andrew Ellerton
*/

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1.658 systemd-shim 219-19.el7_2.13

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1.659 libdrm 2.4.60

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*
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in path(s):
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.c
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* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/MCONFIG.in
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Found in path(s):
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/common/tftpsubs.h
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/extern.h
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* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.h
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* ---------------------------------------------------------------------- */
```

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.\"
.\"-- */

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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

* 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-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp.spec.in

1.661 containerd 0.2.7

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1.662 vim 8.1.0347

1.663 six 1.11.0-3.ph3

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1.664 python-pip 9.0.3

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1.665 python-requests 2.19.1

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
of
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All Python releases are Open Source (see http://www.opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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Version 2.0, January 2004

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

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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
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3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.667 python-pip 8.1.1

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Go support for Protocol Buffers - Google's data interchange format

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1.671 kerberos 1.10.3

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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.672 libidn 1.33-1

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The of the start-stop-daemon

* A rewrite
 of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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Program (independent of having been
 made by running the Program).
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stating
 that you changed the files and the date of any change.

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The source code for a work means the preferred form of the work for
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code means all the source code for all modules it contains, plus any
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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

@smallexample
@var{one line to give the program's name
and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
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@end smallexample

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

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

@smallexample
Gnomovision version
 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the program, if
necessary. Here is a sample; alter the names:

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

This General

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel
directory:
- the _programs_ gettext, ngettext, envsubst,
- the documentation.

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Version 2.1, February 1999

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permits such linking only if the
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becomes
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allowed to use the library. A more frequent case is that a free
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case, there is little to gain by limiting

the free library to free
software only, so we use the Lesser General Public License.

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

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"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

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and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under
the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything

that is
normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.681 uclibc 1.3.3-040609

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From gsf@research.att.com Wed Mar 1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
 by localhost (Postfix) with ESMTP id B8C814E4F
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
 by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]
 by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100
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Received: (from gsf@localhost)
 by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112
 for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO

X-Status:
X-Keywords:

X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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1.682 uip 1.0

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* Author: Adam Dunkels <adam@sics.se>
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* $Id: httpd-fsdata.h,v 1.1 2006/06/07 09:13:08 adam Exp $
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/**
\defgroup pt Protothreads

Protothreads are a type of lightweight stackless threads designed for
severly memory constrained systems such as deeply embedded systems or
sensor network nodes. Protothreads provides linear code execution for
event-driven systems implemented in C. Protothreads can be used with
or without an RTOS.

Protothreads are a extremely lightweight, stackless type of threads
that provides a blocking context on top of an event-driven system,
without the overhead of per-thread stacks. The purpose of protothreads
is to implement sequential flow of control without complex state
machines or full multi-threading. Protothreads provides conditional
blocking inside C functions.

The advantage of protothreads over a purely event-driven approach is
that protothreads provides a sequential code structure that allows for
blocking functions. In purely event-driven systems, blocking must be
implemented by manually
 breaking the function into two pieces - one
for the piece of code before the blocking call and one for the code
after the blocking call. This makes it hard to use control structures
such as if() conditionals and while() loops.

The advantage of protothreads over ordinary threads is that a
protothread do not require a separate stack. In memory constrained
systems, the overhead of allocating multiple stacks can consume large
amounts of the available memory. In contrast, each protothread only
requires between two and twelve bytes of state, depending on the
architecture.

\note Because protothreads do not save the stack context across a
blocking call, local variables are not preserved when the
protothread blocks. This means that local variables should be used
with utmost care - if in doubt, do not use local variables inside a
protothread!

Main features:

- No machine specific code - the protothreads library is pure C

- Does not use error-prone functions such as
longjmp()

- Very small RAM overhead - only two bytes per protothread

- Can be used with or without an OS

- Provides blocking wait without full multi-threading or
stack-switching

Examples applications:

- Memory constrained systems

- Event-driven protocol stacks

- Deeply embedded systems

- Sensor network nodes

The protothreads API consists of four basic operations:
initialization: PT_INIT(), execution: PT_BEGIN(), conditional
blocking: PT_WAIT_UNTIL() and exit: PT_END(). On top of these, two
convenience functions are built: reversed condition blocking:
PT_WAIT_WHILE() and protothread blocking: PT_WAIT_THREAD().

\sa \ref pt "Protothreads API documentation"

The protothreads library is released under a BSD-style license that
allows for both non-commercial and commercial usage. The only
requirement is that credit is given.

\section authors Authors

The protothreads library was written by Adam Dunkels <adam@sics.se>
with
support from Oliver Schmidt <ol.sc@web.de>.

\section pt-desc Protothreads

Protothreads are a extremely lightweight, stackless threads that
provides a blocking context on top of an event-driven system, without
the overhead of per-thread stacks. The purpose of protothreads is to
implement sequential flow of control without using complex state
machines or full multi-threading. Protothreads provides conditional
blocking inside a C function.

In memory constrained systems, such as deeply embedded systems,

traditional multi-threading may have a too large memory overhead. In traditional multi-threading, each thread requires its own stack, that typically is over-provisioned. The stacks may use large parts of the available memory.

The main advantage of protothreads over ordinary threads is that protothreads are very lightweight: a protothread does not require its own stack. Rather, all protothreads run on the same stack and context switching is done by stack rewinding. This is advantageous
in memory
constrained systems, where a stack for a thread might use a large part of the available memory. A protothread only requires only two bytes of memory per protothread. Moreover, protothreads are implemented in pure C and do not require any machine-specific assembler code.

A protothread runs within a single C function and cannot span over other functions. A protothread may call normal C functions, but cannot block inside a called function. Blocking inside nested function calls is instead made by spawning a separate protothread for each potentially blocking function. The advantage of this approach is that blocking is explicit: the programmer knows exactly which functions that block that which functions the never blocks.

Protothreads are similar to asymmetric co-routines. The main difference is that co-routines uses a separate stack for each co-routine, whereas protothreads are stackless. The most similar mechanism to protothreads are Python generators. These are also
stackless
constructs, but have a different purpose. Protothreads provides blocking contexts inside a C function, whereas Python generators provide multiple exit points from a generator function.

\section pt-autovars Local variables

\note
Because protothreads do not save the stack context across a blocking call, local variables are not preserved when the protothread blocks. This means that local variables should be used with utmost care - if in doubt, do not use local variables inside a protothread!

\section pt-scheduling Scheduling

A protothread is driven by repeated calls to the function in which the protothread is running. Each time the function is called, the protothread will run until it blocks or exits. Thus the scheduling of protothreads is done by the application that uses protothreads.

\section pt-impl Implementation

Protothreads are implemented using \ref lc "local continuations". A
local continuation represents the current state of execution at a
particular place in the program,
 but does not provide any call history
or local variables. A local continuation can be set in a specific
function to capture the state of the function. After a local
continuation has been set can be resumed in order to restore the state
of the function at the point where the local continuation was set.

Local continuations can be implemented in a variety of ways:

  -# by using machine specific assembler code,
  -# by using standard C constructs, or
  -# by using compiler extensions.

The first way works by saving and restoring the processor state,
except for stack pointers, and requires between 16 and 32 bytes of
memory per protothread. The exact amount of memory required depends on
the architecture.

The standard C implementation requires only two bytes of state per
protothread and utilizes the C switch() statement in a non-obvious way
that is similar to Duff's device. This implementation does, however,
impose a slight restriction to the code that uses protothreads in that
the
 code cannot use switch() statements itself.

Certain compilers has C extensions that can be used to implement
protothreads. GCC supports label pointers that can be used for this
purpose. With this implementation, protothreads require 4 bytes of RAM
per protothread.

@{

*/

/** @} */

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* Author: Adam Dunkels <adam@sics.se>
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* /uip-master-zip/uip-master/apps/webserver/httpd.c

1.683 expat 2.4.1

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```
package licensing

import (
 "context"
 "crypto/hmac"
 "crypto/sha256"
 "encoding/base64"
 "encoding/json"
 "fmt"
 "time"

 "github.com/docker/libtrust"
 "github.com/docker/licensing/lib/errors"
 "github.com/docker/licensing/lib/go-clientlib"
 "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
 url := c.baseURI
 url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

 license := new(model.IssuedLicense)
 if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
  return nil, err
 }

 return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
 keyID := license.KeyID
 privateKey := license.PrivateKey

 authorization, err := c.getAuthorization(ctx,
 license)
 if err != nil {
  return nil, err
 }
```

```
// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
 err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
 return nil, errors.WithStack(err).With(errors.Fields{
  "key_id": keyID,
 })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
 return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if
err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
```

```
 if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
  return nil, errors.Wrap(err, errors.Fields{
   "key_id": keyID,
  })
 }

 return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
 for _, publicKey := range c.publicKeys {
  if key.KeyID() == publicKey.KeyID() {
   return true
  }
 }
 return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
 decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
 if err != nil {
  return nil, errors.Wrapf(err, errors.Fields{
   "key_id": license.KeyID,
  }, "decoding license authorization
 failed")
 }
 return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
 tokenBytes, err := base64.URLEncoding.DecodeString(token)
 if err != nil {
  return errors.Wrap(err, errors.Fields{"token": token})
 }

 generatedToken, err := generateToken(message, privateKey)
 if err != nil {
  return errors.Wrap(err, errors.Fields{"token": token})
 }
```

```
 generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
 if err != nil {
  return errors.Wrap(err, errors.Fields{"token": token})
 }

 if !hmac.Equal(tokenBytes, generatedBytes) {
  return errors.Forbidden(errors.Fields{"token": token},
 "invalid token")
 }

 return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
 key, err := base64.URLEncoding.DecodeString(privateKey)
 if err != nil {
  return "", errors.Wrap(err, errors.Fields{"msg": message})
 }

 h := hmac.New(sha256.New, key)
 h.Write([]byte(message))
 return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}
```

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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```
package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
 Expiration      time.Time `json:"expiration"`
 Token           string    `json:"token"`
 MaxEngines      int       `json:"maxEngines"`
 ScanningEnabled bool      `json:"scanningEnabled"`
 Type            string    `json:"licenseType"`
 Tier            string    `json:"tier"`
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
 KeyID         string `json:"key_id"`
 PrivateKey    string `json:"private_key"`
 Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
 if l.KeyID == "" {
  return false, "empty key_id"
 }

 if l.PrivateKey == "" {
  return false, "empty private_key"
 }

 if l.Authorization == "" {
  return false, "empty authorization"
 }
```

```
 return true, ""
}
```

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package formatter

```
import (
 "bytes"
 "encoding/json"
 "strings"
 "testing"
 "time"

 "github.com/docker/cli/internal/licenseutils"
 "github.com/docker/licensing/model"
 "gotest.tools/assert"
```

```
 is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
 cases := []struct {
  context  Context
  expected string
 }{
  // Errors
  {
   Context{Format: "{{InvalidFunction}}"},
   `Template parsing error: template: :1: function "InvalidFunction" not defined
`,
  },
  {
   Context{Format: "{{nil}}"},
   `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
  },
  // Table format
  {
   Context{Format: NewSubscriptionsFormat("table", false)},
   `NUM                OWNER               PRODUCT ID          EXPIRES                       PRICING COMPONENTS
1                   owner1              productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2                   owner2              productid2          2020-01-01 10:00:00 +0000
 UTC   compstring
`,
  },
  {
   Context{Format: NewSubscriptionsFormat("table", true)},
   `1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
  },
  {
   Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
   `OWNER
owner1
owner2
`,
  },
  {
   Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
   `OWNER
owner1
owner2
`,
  },
```

```
  // Raw Format
  {
   Context{Format: NewSubscriptionsFormat("raw", false)},
   `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

`,
  },
  {
   Context{Format: NewSubscriptionsFormat("raw", true)},
   `license: id1
license: id2
`,
  },
  // Custom Format
  {
   Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
   `owner1
owner2
`,
  },
 }

 expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

 for _, testcase := range cases {
  subscriptions
 := []licenseutils.LicenseDisplay{
   {
    Num:   1,
    Owner: "owner1",
    Subscription: model.Subscription{
     ID:       "id1",
     Name:     "name1",
     ProductID: "productid1",
     Expires:   &expiration,
     PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
       Name:  "nodes",
       Value: 10,
      },
```

```
    },
   },
   ComponentsString: "compstring",
  },
  {
   Num:   2,
   Owner: "owner2",
   Subscription: model.Subscription{
    ID:        "id2",
    Name:      "name2",
    ProductID: "productid2",
    Expires:   &expiration,
    PricingComponents: model.PricingComponents{
     &model.SubscriptionPricingComponent{
      Name:  "nodes",
      Value: 20,
     },
    },
   },
   ComponentsString: "compstring",
  },
 }
 out := &bytes.Buffer{}
 testcase.context.Output = out
 err := SubscriptionsWrite(testcase.context, subscriptions)
 if err != nil {
  assert.Error(t, err, testcase.expected)
 } else {
  assert.Check(t,
is.Equal(testcase.expected, out.String()))
 }
 }
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
 expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
 subscriptions := []licenseutils.LicenseDisplay{
  {
   Num:   1,
   Owner: "owner1",
   Subscription: model.Subscription{
    ID:        "id1",
    Name:      "name1",
    ProductID: "productid1",
    Expires:   &expiration,
    PricingComponents: model.PricingComponents{
     &model.SubscriptionPricingComponent{
      Name:  "nodes",
```

```
    Value: 10,
   },
  },
 },
 ComponentsString: "compstring",
},
{
 Num:   2,
 Owner: "owner2",
 Subscription: model.Subscription{
  ID:        "id2",
  Name:      "name2",
  ProductID: "productid2",
  Expires:   &expiration,
  PricingComponents: model.PricingComponents{
   &model.SubscriptionPricingComponent{
    Name:  "nodes",
    Value: 20,
   },
  },
 },
 ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
 {
  "Owner":
          "owner1",
  "ComponentsString": "compstring",
  "Expires":          "2020-01-01T10:00:00Z",
  "DockerID":         "",
  "Eusa":             nil,
  "ID":               "id1",
  "Start":            nil,
  "Name":             "name1",
  "Num":              float64(1),
  "PricingComponents": []interface{}{
   map[string]interface{}{
    "name":  "nodes",
    "value": float64(10),
   },
  },
  "ProductID":        "productid1",
  "ProductRatePlan":   "",
  "ProductRatePlanID": "",
  "State":            "",
  "Summary":          "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
 },
```

```
 {
  "Owner":            "owner2",
  "ComponentsString": "compstring",
  "Expires":          "2020-01-01T10:00:00Z",
  "DockerID":         "",
  "Eusa":             nil,
  "ID":               "id2",
  "Start":            nil,
  "Name":             "name2",
  "Num":              float64(2),
  "PricingComponents": []interface{}{
   map[string]interface{}{
    "name":
 "nodes",
    "value": float64(20),
   },
  },
  "ProductID":        "productid2",
  "ProductRatePlan":   "",
  "ProductRatePlanID": "",
  "State":            "",
  "Summary":          "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
 },
}

 out := &bytes.Buffer{}
 err := SubscriptionsWrite(Context{Format: "{{json .}}", Output: out}, subscriptions)
 if err != nil {
  t.Fatal(err)
 }
 for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
  var m map[string]interface{}
  if err := json.Unmarshal([]byte(line), &m); err != nil {
   t.Fatal(err)
  }
  assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
 }
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
 subscriptions := []licenseutils.LicenseDisplay{
  {Num: 1, Owner: "owner1"},
  {Num: 2, Owner: "owner2"},
 }
 out := &bytes.Buffer{}
 err := SubscriptionsWrite(Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
 if
```

```
err != nil {
 t.Fatal(err)
 }
 for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
  var s string
  if err := json.Unmarshal([]byte(line), &s); err != nil {
   t.Fatal(err)
  }
  assert.Check(t, is.Equal(subscriptions[i].Owner, s))
 }
}
```

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package formatter

import (

```
 "time"

 "github.com/docker/cli/internal/licenseutils"
 "github.com/docker/licensing/model"
)

const (
 defaultSubscriptionsTableFormat = "table
{{.Num}}\t{{.Owner}}\t{{.ProductID}}\t{{.Expires}}\t{{.ComponentsString}}"
 defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

 numHeader              = "NUM"
 ownerHeader            = "OWNER"
 licenseNameHeader      = "NAME"
 idHeader               = "ID"
 dockerIDHeader         = "DOCKER ID"
 productIDHeader        = "PRODUCT ID"
 productRatePlanHeader  = "PRODUCT RATE PLAN"
 productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
 startHeader            = "START"
 expiresHeader          = "EXPIRES"
 stateHeader            = "STATE"
 eusaHeader             = "EUSA"
 pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) Format {
 switch source {
 case TableFormatKey:
  if quiet
  {
   return defaultSubscriptionsQuietFormat
  }
  return defaultSubscriptionsTableFormat
 case RawFormatKey:
  if quiet {
   return `license: {{.ID}}`
  }
  return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`
 }
 return Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx Context, subs []licenseutils.LicenseDisplay) error {
 render := func(format func(subContext subContext) error) error {
  for _, sub := range subs {
```

```
  licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
  if err := format(licenseCtx); err != nil {
   return err
  }
 }
 return nil
}
licenseCtx := licenseContext{}
licenseCtx.header = map[string]string{
 "Num":              numHeader,
 "Owner":            ownerHeader,
 "Name":             licenseNameHeader,
 "ID":               idHeader,
 "DockerID":         dockerIDHeader,
 "ProductID":        productIDHeader,
 "ProductRatePlan":   productRatePlanHeader,
 "ProductRatePlanID":
productRatePlanIDHeader,
 "Start":            startHeader,
 "Expires":          expiresHeader,
 "State":            stateHeader,
 "Eusa":             eusaHeader,
 "ComponentsString":  pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
 HeaderContext
 trunc bool
 l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
 return marshalJSON(c)
}

func (c *licenseContext) Num() int {
 return c.l.Num
}

func (c *licenseContext) Owner() string {
 return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
 return c.l.ComponentsString
}
```

```
func (c *licenseContext) Summary() string {
 return c.l.String()
}

func (c *licenseContext) Name() string {
 return c.l.Name
}

func (c *licenseContext) ID() string {
 return c.l.ID
}

func (c *licenseContext) DockerID() string {
 return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
 return c.l.ProductID
}

func (c *licenseContext)
 ProductRatePlan() string {
 return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
 return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
 return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
 return c.l.Expires
}

func (c *licenseContext) State() string {
 return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
 return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
 // Dereference the pricing component pointers in the pricing components
```

```
 // so it can be rendered properly with the template formatter

 var ret []model.SubscriptionPricingComponent
 for _, spc := range c.l.PricingComponents {
  if spc == nil {
   continue
  }
  ret = append(ret, *spc)
 }
 return ret
}
```

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1.689 procps 3.2.8

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of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

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

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

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

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

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

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

a) Accompany the

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machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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1.694 tdb 1.43

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     ===============

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

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

*/

1.697 chardet 3.0.4

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1.698 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
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1.699 webencodings 0.5.1

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1.700 pyyaml 3.13

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1.702 base-64 1.0.0

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1.703 bmc-cimc-device-drivers 1.0/1.1-1.0

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