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1.357 libnl3 1.1.4-3.el7
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1.380 libfastjson 0.99.8-r0
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1.381 ipmi-tool 1.8.11
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1.546 blackfriday 2.0.1

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1.547 sanitized-anchor-name 1.0.0

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1.548 opencontainers-runtime-spec 1.0.3-0.20200929063507-e6143ca7d51d

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1.549 x-sys 0.0.0-20201119102817-f84b799fce68

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1.550 protobuf 1.23.0

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1.552 containerd-console 1.0.1

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1.655 psmisc 23.4

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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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1.5 glibc 2.7

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*
* @version 3.0 (December 2000)
*
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.11 python 2.5.4

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==========

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

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)

in Reston, Virginia where he released several versions of the software.

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes

2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.2	2008	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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1.16 tar 1.23

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1.17 u-boot 1.3.0

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1.19 open-ldap 2.4.11

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1.23 iptables 1.4.19.1

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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
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ppp-2.4.5/pppd/lcp.h
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ppp-2.4.5/pppd/magic.h
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ppp-2.4.5/pppd/options.c
ppp-2.4.5/pppd/pppd.h
ppp-2.4.5/pppd/session.c
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* - disconnect method added
* - remove_options() abuse removed.
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ppp-2.4.5/pppd/plugins/radius/Makefile.linux
ppp-2.4.5/pppd/plugins/radius/radattr.c
ppp-2.4.5/pppd/plugins/rp-pppoe/common.c
ppp-2.4.5/pppd/plugins/rp-pppoe/debug.c
ppp-2.4.5/pppd/plugins/rp-pppoe/discovery.c
ppp-2.4.5/pppd/plugins/rp-pppoe/if.c
ppp-2.4.5/pppd/plugins/rp-pppoe/Makefile.linux
ppp-2.4.5/pppd/plugins/rp-pppoe/pppoe-discovery.c
ppp-2.4.5/pppd/plugins/rp-pppoe/pppoe.h
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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
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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/pathnames.h
ppp-2.4.5/pppd/plugins/radius/radiusclient.h
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ppp-2.4.5/pppd/plugins/radius/ip_util.c
ppp-2.4.5/pppd/plugins/radius/pathnames.h
ppp-2.4.5/pppd/plugins/radius/radiusclient.h
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/*
* session.c - PPP session control.
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```
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*
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 * 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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That's all there is to it!

1.26 sed 4.2.2

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1.31 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

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

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Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
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Gadi Oxman, August 1995

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That's all there is to it!
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:
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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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by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/

1.34 ethtool 3.9

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1.35 libtool-libltdl 2.4.2

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

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

That's all there is to it!

1.36 dropbear 2013.58

1.36.1 Available under license :

Dropbear contains a number of components from different sources, hence there
are a few licenses and authors involved. All licenses are fairly
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The majority of code is written by Matt Johnston, under the license below.

Portions of the client-mode work are (c) 2004 Mihnea Stoenescu, under the
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=====

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=====

sshpty.c is taken from OpenSSH 3.5p1,
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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
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Tom St Denis

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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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
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1.38 unzip 6.0

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the system specific ports.
Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

- -

There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port).. These copyrights
are discussed in more detail below.

All remaining
code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the acompaning
file LICENSE. The terms and conditions in this license supersede the
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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-

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

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

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
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   *         redistribute the source, we require that you make
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```

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```
   *  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
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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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```
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```

```
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 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.
```

1.39 free-type 2.5.3

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1.40 ncurses 5.9

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1.43 httpfs2 0.1.4

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/*
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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.
*

*/
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1.44 readline 6.2

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1.49 dhcp 4.3.0

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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.

 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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1.50 net-snmp 5.1

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1.51 libpcap 1.7.3

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1.53 apache-http-server 2.4.16

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* 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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Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
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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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****
 *
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*
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* --
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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:

/*   ZeusBench V1.01
     ===============

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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" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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">
Modules | Directives | FAQ | Glossary | Sitemap
Apache HTTP Server Version 2.4

<img title="<-" alt="<-" src="./images/left.gif" />

Apache > HTTP Server > Documentation > Version 2.4 <h1>The Apache License, Version 2.0</h1>

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     var s = d.createElement('script');
     s.type = 'text/javascript';
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     s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
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 (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
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1.57 findutils 4.6.0

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1.59 openssl 1.0.2j

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1.61 glibc 2.24

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1.62 pam 1.3.0

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1.63 pciutils 3.5.1 1.el7

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/* number.c: Implements arbitrary precision numbers. */
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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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1.76 pcre 8.40

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1.77 openssl 1.0.2l

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1.78 libuser 0.60-7.el7_1

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1.81 libmnl 1.0.4

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1.82 openssl 1.0.2k

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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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1.88 ncurses 6.0

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1.89 libwww 5.4.2

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1.91 python 2.7.15

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****
History and License
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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
https://www.python.org/psf/) was formed, a non-profit organization
 created
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All Python releases are Open Source (see https://opensource.org/ for the Open
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+----------------+--------------+-----------+------------+-----------------+
| Release | Derived from | Year | Owner | GPL compatible? |
+================+==============+===========+============+=================+
| 0.9.0 thru 1.2 | n/a | 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 | 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 |
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| 2002 | PSF | yes |
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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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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 (section A.5) but excluding the rest of
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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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Python was created in the early 1990s by Guido van Rossum at Stichting
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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
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in Reston, Virginia where he released several versions of the
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In May 2000, Guido and the Python core development team moved to
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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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2.0	1.6	2000	BeOpen.com	no
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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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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
:func:`getnameinfo`, which are coded in separate source files from the WIDE
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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 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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UUencode and UUdecode functions

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

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1.92 zlib 1.2.3

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src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
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src/pcf/pcf.c
src/pcf/pcf.h
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src/gzip/adler32.c
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src/gzip/zconf.h
src/gzip/zlib.h
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*
* $Id$
*/

#include "db_config.h"

#include
 "db_int.h"
#include "dbinc/blob.h"
#include "dbinc/crypto.h"
#include "dbinc/db_page.h"
#include "dbinc/db_swap.h"
#include "dbinc/btree.h"
#include "dbinc/lock.h"
#include "dbinc/mp.h"
#include "dbinc/partition.h"
#include "dbinc/fop.h"

static void __bam_init_meta __P((DB *, BTMETA *, db_pgno_t, DB_LSN *));

/*
* __bam_open --
* Open a btree.
*
* PUBLIC: int __bam_open __P((DB *, DB_THREAD_INFO *,
* PUBLIC:      DB_TXN *, const char *, db_pgno_t, u_int32_t));
*/
int
__bam_open(dbp, ip, txn, name, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 const char *name;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTREE *t;

 COMPQUIET(name, NULL);
 t = dbp->bt_internal;

 /*
  * We don't permit the user to specify a prefix routine if they didn't
```

```
 * also specify a comparison routine, they can't know enough about our
 * comparison routine to get it right.
 */
if (t->bt_compare == __bam_defcmp && t->bt_prefix != __bam_defpfx)
{
 __db_errx(dbp->env, DB_STR("1006",
"prefix comparison may not be specified for default comparison routine"));
 return (EINVAL);
}

/*
 * Verify that the bt_minkey value specified won't cause the
 * calculation of ovflsize to underflow [#2406] for this pagesize.
 */
if (B_MINKEY_TO_OVFLSIZE(dbp, t->bt_minkey, dbp->pgsize) >
    B_MINKEY_TO_OVFLSIZE(dbp, DEFMINKEYPAGE, dbp->pgsize)) {
 __db_errx(dbp->env, DB_STR_A("1007",
     "bt_minkey value of %lu too high for page size of %lu",
     "%lu %lu"), (u_long)t->bt_minkey, (u_long)dbp->pgsize);
 return (EINVAL);
}

/* Start up the tree. */
return (__bam_read_root(dbp, ip, txn, base_pgno, flags));
}

/*
* __bam_metachk --
*
* PUBLIC: int __bam_metachk __P((DB *, const char *, BTMETA *));
*/
int
__bam_metachk(dbp, name, btm)
 DB *dbp;
 const char *name;
 BTMETA *btm;
{
 ENV *env;
 u_int32_t vers;
 int ret;

 env = dbp->env;
 ret = 0;

 /*
  * At this point, all we know
 is that the magic number is for a Btree.
  * Check the version, the database may be out of date.
```

```
 */
vers = btm->dbmeta.version;
if (F_ISSET(dbp, DB_AM_SWAP))
 M_32_SWAP(vers);
switch (vers) {
case 6:
case 7:
 __db_errx(env, DB_STR_A("1008",
    "%s: btree version %lu requires a version upgrade",
    "%s %lu"), name, (u_long)vers);
 return (DB_OLD_VERSION);
case 8:
case 9:
case 10:
 break;
default:
 __db_errx(env, DB_STR_A("1009",
    "%s: unsupported btree version: %lu", "%s %lu"),
    name, (u_long)vers);
 return (EINVAL);
}

/* Swap the page if we need to. */
if (F_ISSET(dbp, DB_AM_SWAP) &&
   (ret = __bam_mswap(env, (PAGE *)btm)) != 0)
 return (ret);

/*
 * Check application info against metadata info, and set info, flags,
 * and type based on metadata info.
 */
if ((ret =
   __db_fchk(env, "DB->open", btm->dbmeta.flags, BTM_MASK)) != 0)
 return (ret);

if (F_ISSET(&btm->dbmeta, BTM_RECNO)) {
 if (dbp->type
== DB_BTREE)
  goto wrong_type;
 dbp->type = DB_RECNO;
 DB_ILLEGAL_METHOD(dbp, DB_OK_RECNO);
} else {
 if (dbp->type == DB_RECNO)
  goto wrong_type;
 dbp->type = DB_BTREE;
 DB_ILLEGAL_METHOD(dbp, DB_OK_BTREE);
}
```

```
if (F_ISSET(&btm->dbmeta, BTM_DUP))
 F_SET(dbp, DB_AM_DUP);
else
 if (F_ISSET(dbp, DB_AM_DUP)) {
  __db_errx(env, DB_STR_A("1010",
 "%s: DB_DUP specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RECNUM)) {
 if (dbp->type != DB_BTREE)
  goto wrong_type;
 F_SET(dbp, DB_AM_RECNUM);

 if ((ret = __db_fcchk(env,
     "DB->open", dbp->flags, DB_AM_DUP, DB_AM_RECNUM)) != 0)
  return (ret);
} else
 if (F_ISSET(dbp, DB_AM_RECNUM)) {
  __db_errx(env, DB_STR_A("1011",
    "%s: DB_RECNUM specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_FIXEDLEN)) {
 if (dbp->type != DB_RECNO)
  goto
wrong_type;
 F_SET(dbp, DB_AM_FIXEDLEN);
} else
 if (F_ISSET(dbp, DB_AM_FIXEDLEN)) {
  __db_errx(env, DB_STR_A("1012",
"%s: DB_FIXEDLEN specified to open method but not set in database",
  "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RENUMBER)) {
 if (dbp->type != DB_RECNO)
  goto wrong_type;
 F_SET(dbp, DB_AM_RENUMBER);
} else
 if (F_ISSET(dbp, DB_AM_RENUMBER)) {
  __db_errx(env, DB_STR_A("1013",
    "%s: DB_RENUMBER specified to open method but not set in database",
      "%s"), name);
```

```
  return (EINVAL);
 }

 if (F_ISSET(&btm->dbmeta, BTM_SUBDB))
  F_SET(dbp, DB_AM_SUBDB);
 else
  if (F_ISSET(dbp, DB_AM_SUBDB)) {
   __db_errx(env, DB_STR_A("1014",
     "%s: multiple databases specified but not supported by file",
      "%s"), name);
   return (EINVAL);
  }

 if (F_ISSET(&btm->dbmeta, BTM_DUPSORT)) {
  if (dbp->dup_compare == NULL)
   dbp->dup_compare = __bam_defcmp;
  F_SET(dbp, DB_AM_DUPSORT);
 }
 else
  if (dbp->dup_compare != NULL) {
   __db_errx(env, DB_STR_A("1015",
  "%s: duplicate sort specified but not supported in database",
      "%s"), name);
   return (EINVAL);
  }

#ifdef HAVE_COMPRESSION
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  F_SET(dbp, DB_AM_COMPRESS);
  if ((BTREE *)dbp->bt_internal != NULL &&
      !DB_IS_COMPRESSED(dbp) &&
      (ret = __bam_set_bt_compress(dbp, NULL, NULL)) != 0)
   return (ret);
 } else {
  if ((BTREE *)dbp->bt_internal != NULL &&
      DB_IS_COMPRESSED(dbp)) {
   __db_errx(env, DB_STR_A("1016",
  "%s: compresssion specified to open method but not set in database",
       "%s"), name);
   return (EINVAL);
  }
 }
#else
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  __db_errx(env, DB_STR_A("1017",
      "%s: compression support has not been compiled in", "%s"),
      name);
  return (EINVAL);
```

```
 }
#endif

 /* Set the page size. */
 dbp->pgsize = btm->dbmeta.pagesize;

 dbp->blob_threshold = btm->blob_threshold;
 GET_BLOB_FILE_ID(env,
 btm, dbp->blob_file_id, ret);
 if (ret != 0)
  return (ret);
 GET_BLOB_SDB_ID(env, btm, dbp->blob_sdb_id, ret);
 if (ret != 0)
  return (ret);
 /* Blob databases must be upgraded. */
 if (vers == 9 && (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0)) {
     __db_errx(env, DB_STR_A("1207",
"%s: databases that support blobs must be upgraded.", "%s"),
      name);
  return (EINVAL);
 }
#ifndef HAVE_64BIT_TYPES
 if (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0) {
  __db_errx(env, DB_STR_A("1199",
      "%s: blobs require 64 integer compiler support.", "%s"),
      name);
  return (EINVAL);
 }
#endif

 /* Copy the file's ID. */
 memcpy(dbp->fileid, btm->dbmeta.uid, DB_FILE_ID_LEN);

 return (0);

wrong_type:
 if (dbp->type == DB_BTREE)
  __db_errx(env, DB_STR("1018",
      "open method type is Btree, database type is Recno"));
 else
  __db_errx(env, DB_STR("1019",
      "open method type is Recno, database type is Btree"));
 return
 (EINVAL);
}

/*
* __bam_read_root --
```

```
* Read the root page and check a tree.
*
* PUBLIC: int __bam_read_root __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, db_pgno_t, u_int32_t));
*/
int
__bam_read_root(dbp, ip, txn, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTMETA *meta;
 BTREE *t;
 DBC *dbc;
 DB_LOCK metalock;
 DB_MPOOLFILE *mpf;
 int ret, t_ret;

 COMPQUIET(flags, 0);

 meta = NULL;
 t = dbp->bt_internal;
 LOCK_INIT(metalock);
 mpf = dbp->mpf;
 ret = 0;

 /* Get a cursor.  */
 if ((ret = __db_cursor(dbp, ip, txn, &dbc,
     F_ISSET(dbp, DB_AM_RECOVER) ? DB_RECOVER : 0)) != 0)
  return (ret);

 /* Get the metadata page. */
 if ((ret =
     __db_lget(dbc, 0, base_pgno, DB_LOCK_READ, 0, &metalock)) != 0)
  goto err;
 if ((ret = __memp_fget(mpf, &base_pgno, ip, dbc->txn, 0, &meta)) != 0)
  goto err;

 /*
  * If the magic number is set, the tree has been
 created.  Correct
  * any fields that may not be right.  Note, all of the local flags
  * were set by DB->open.
  *
  * Otherwise, we'd better be in recovery or abort, in which case the
  * metadata page will be created/initialized elsewhere.
```

```
 *
 * Ignore the last_pgno on the metadata page for snapshot transactions:
 * we may be reading an old version of the page, and we've already
 * set last_pgno from the file size.  The only time this would matter
 * is if we don't have ftruncate and there are some free pages at the
 * end of the file: we could end up with holes.
 */
if (meta->dbmeta.magic == DB_BTREEMAGIC) {
 t->bt_minkey = meta->minkey;
 t->re_pad = (int)meta->re_pad;
 t->re_len = meta->re_len;

 t->bt_meta = base_pgno;
 t->bt_root = meta->root;
 t->revision = dbp->mpf->mfp->revision;
 if (PGNO(meta) == PGNO_BASE_MD &&
     !F_ISSET(dbp, DB_AM_RECOVER) &&
     (txn == NULL || !F_ISSET(txn, TXN_SNAPSHOT)) && (ret =
     __memp_set_last_pgno(mpf,
meta->dbmeta.last_pgno)) != 0)
  goto err;
} else {
 DB_ASSERT(dbp->env,
     IS_RECOVERING(dbp->env) || F_ISSET(dbp, DB_AM_RECOVER));
}

/*
 * !!!
 * If creating a subdatabase, we've already done an insert when
 * we put the subdatabase's entry into the master database, so
 * our last-page-inserted value is wrongly initialized for the
 * master database, not the subdatabase we're creating.  I'm not
 * sure where the *right* place to clear this value is, it's not
 * intuitively obvious that it belongs here.
 */
t->bt_lpgno = PGNO_INVALID;

err: /* Put the metadata page back. */
 if (meta != NULL && (t_ret = __memp_fput(mpf,
     ip, meta, dbc->priority)) != 0 && ret == 0)
  ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;

 if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
  ret = t_ret;
 return (ret);
}
```

```
/*
* __bam_init_meta --
*
* Initialize a btree meta-data page.  The following fields may
 need
* to be updated later: last_pgno, root.
*/
static void
__bam_init_meta(dbp, meta, pgno, lsnp)
 DB *dbp;
 BTMETA *meta;
 db_pgno_t pgno;
 DB_LSN *lsnp;
{
 BTREE *t;
#ifdef HAVE_PARTITION
 DB_PARTITION *part;
#endif
 ENV *env;

 env = dbp->env;
 t = dbp->bt_internal;

 memset(meta, 0, sizeof(BTMETA));
 meta->dbmeta.lsn = *lsnp;
 meta->dbmeta.pgno = pgno;
 meta->dbmeta.magic = DB_BTREEMAGIC;
 meta->dbmeta.version = DB_BTREEVERSION;
 meta->dbmeta.pagesize = dbp->pgsize;
 if (F_ISSET(dbp, DB_AM_CHKSUM))
  FLD_SET(meta->dbmeta.metaflags, DBMETA_CHKSUM);
 if (F_ISSET(dbp, DB_AM_ENCRYPT)) {
  meta->dbmeta.encrypt_alg = env->crypto_handle->alg;
  DB_ASSERT(env, meta->dbmeta.encrypt_alg != 0);
  meta->crypto_magic = meta->dbmeta.magic;
 }
 meta->dbmeta.type = P_BTREEMETA;
 meta->dbmeta.free = PGNO_INVALID;
 meta->dbmeta.last_pgno = pgno;
 if (F_ISSET(dbp, DB_AM_DUP))
  F_SET(&meta->dbmeta, BTM_DUP);
 if (F_ISSET(dbp, DB_AM_FIXEDLEN))
  F_SET(&meta->dbmeta,
 BTM_FIXEDLEN);
 if (F_ISSET(dbp, DB_AM_RECNUM))
  F_SET(&meta->dbmeta, BTM_RECNUM);
 if (F_ISSET(dbp, DB_AM_RENUMBER))
```

```
  F_SET(&meta->dbmeta, BTM_RENUMBER);
 if (F_ISSET(dbp, DB_AM_SUBDB))
  F_SET(&meta->dbmeta, BTM_SUBDB);
 if (dbp->dup_compare != NULL)
  F_SET(&meta->dbmeta, BTM_DUPSORT);
#ifdef HAVE_COMPRESSION
 if (DB_IS_COMPRESSED(dbp))
  F_SET(&meta->dbmeta, BTM_COMPRESS);
#endif
 if (dbp->type == DB_RECNO)
  F_SET(&meta->dbmeta, BTM_RECNO);
 memcpy(meta->dbmeta.uid, dbp->fileid, DB_FILE_ID_LEN);

 meta->minkey = t->bt_minkey;
 meta->re_len = t->re_len;
 meta->re_pad = (u_int32_t)t->re_pad;
 meta->blob_threshold = dbp->blob_threshold;
 SET_BLOB_META_FILE_ID(meta, dbp->blob_file_id, BTMETA);
 SET_BLOB_META_SDB_ID(meta, dbp->blob_sdb_id, BTMETA);

#ifdef HAVE_PARTITION
 if ((part = dbp->p_internal) != NULL) {
  meta->dbmeta.nparts = part->nparts;
  if (F_ISSET(part, PART_CALLBACK))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_CALLBACK);
  if (F_ISSET(part,
 PART_RANGE))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_RANGE);
 }
#endif
}

/*
* __bam_new_file --
* Create the necessary pages to begin a new database file.
*
* This code appears more complex than it is because of the two cases (named
* and unnamed).  The way to read the code is that for each page being created,
* there are three parts: 1) a "get page" chunk (which either uses malloc'd
* memory or calls __memp_fget), 2) the initialization, and 3) the "put page"
* chunk which either does a fop write or an __memp_fput.
*
* PUBLIC: int __bam_new_file __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, DB_FH *, const char *));
*/
int
__bam_new_file(dbp, ip, txn, fhp, name)
 DB *dbp;
```

```
DB_THREAD_INFO *ip;
DB_TXN *txn;
DB_FH *fhp;
const char *name;
{
BTMETA *meta;
DBT pdbt;
DB_LSN lsn;
DB_MPOOLFILE *mpf;
DB_PGINFO pginfo;
ENV *env;
PAGE *root;
db_pgno_t pgno;
int ret, t_ret;
void *buf;

env = dbp->env;
mpf =
dbp->mpf;
root = NULL;
meta = NULL;
buf = NULL;

if (F_ISSET(dbp, DB_AM_INMEM)) {
 /* Build the meta-data page. */
 pgno = PGNO_BASE_MD;
 if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta)) != 0)
  return (ret);
 LSN_NOT_LOGGED(lsn);
 __bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
 meta->root = 1;
 meta->dbmeta.last_pgno = 1;
 if ((ret =
    __db_log_page(dbp, txn, &lsn, pgno, (PAGE *)meta)) != 0)
  goto err;
 ret = __memp_fput(mpf, ip, meta, dbp->priority);
 meta = NULL;
 if (ret != 0)
  goto err;

 /* Build the root page. */
 pgno = 1;
 if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &root)) != 0)
  goto err;
 P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
```

```
 LSN_NOT_LOGGED(root->lsn);
 if ((ret =
     __db_log_page(dbp, txn, &root->lsn, pgno, root)) != 0)
  goto err;
 ret =
__memp_fput(mpf, ip, root, dbp->priority);
 root = NULL;
 if (ret != 0)
  goto err;
} else {
 memset(&pdbt, 0, sizeof(pdbt));

 /* Build the meta-data page. */
 pginfo.db_pagesize = dbp->pgsize;
 pginfo.flags =
     F_ISSET(dbp, (DB_AM_CHKSUM | DB_AM_ENCRYPT | DB_AM_SWAP));
 pginfo.type = dbp->type;
 pdbt.data = &pginfo;
 pdbt.size = sizeof(pginfo);
 if (dbp->blob_threshold) {
  if ((ret = __blob_generate_dir_ids(dbp, txn,
      &dbp->blob_file_id)) != 0)
   return (ret);

 }
 if ((ret = __os_calloc(env, 1, dbp->pgsize, &buf)) != 0)
  return (ret);
 meta = (BTMETA *)buf;
 LSN_NOT_LOGGED(lsn);
 __bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
 meta->root = 1;
 meta->dbmeta.last_pgno = 1;
 if ((ret = __db_pgout(
     dbp->dbenv, PGNO_BASE_MD, meta, &pdbt)) != 0)
  goto err;
 if ((ret = __fop_write(env, txn, name, dbp->dirname,
     DB_APP_DATA, fhp,
     dbp->pgsize, 0, 0, buf, dbp->pgsize, 1, F_ISSET(
     dbp, DB_AM_NOT_DURABLE)
? DB_LOG_NOT_DURABLE : 0)) != 0)
  goto err;
 meta = NULL;

 /* Build the root page. */
#ifdef DIAGNOSTIC
 memset(buf, CLEAR_BYTE, dbp->pgsize);
#endif
 root = (PAGE *)buf;
```

```
 P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
     LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
 LSN_NOT_LOGGED(root->lsn);
 if ((ret =
     __db_pgout(dbp->dbenv, root->pgno, root, &pdbt)) != 0)
  goto err;
 if ((ret =
     __fop_write(env, txn, name, dbp->dirname, DB_APP_DATA,
     fhp, dbp->pgsize, 1, 0, buf, dbp->pgsize, 1, F_ISSET(
     dbp, DB_AM_NOT_DURABLE) ? DB_LOG_NOT_DURABLE : 0)) != 0)
  goto err;
 root = NULL;
}

err: if (buf != NULL)
  __os_free(env, buf);
 else {
  if (meta != NULL &&
      (t_ret = __memp_fput(mpf, ip,
      meta, dbp->priority)) != 0 && ret == 0)
   ret = t_ret;
  if (root != NULL &&
      (t_ret = __memp_fput(mpf, ip,
      root, dbp->priority)) != 0 && ret == 0)
   ret = t_ret;
 }
 return (ret);
}

/*
 * __bam_new_subdb --
* Create a metadata page and a root page for a new btree.
*
* PUBLIC: int __bam_new_subdb __P((DB *, DB *, DB_THREAD_INFO *, DB_TXN *));
*/
int
__bam_new_subdb(mdbp, dbp, ip, txn)
 DB *mdbp, *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
{
 BTMETA *meta;
 DBC *dbc;
 DB_LOCK metalock;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 ENV *env;
 PAGE *root;
```

```
 int ret, t_ret;

 env = mdbp->env;
 mpf = mdbp->mpf;
 dbc = NULL;
 meta = NULL;
 root = NULL;

 if (dbp->blob_threshold) {
  if ((ret = __blob_generate_dir_ids(dbp, txn,
      &dbp->blob_sdb_id)) != 0)
   return (ret);
 }

 if ((ret = __db_cursor(mdbp, ip, txn,
     &dbc, CDB_LOCKING(env) ?  DB_WRITECURSOR : 0)) != 0)
  return (ret);

 /* Get, and optionally create the metadata page. */
 if ((ret = __db_lget(dbc,
     0, dbp->meta_pgno, DB_LOCK_WRITE, 0, &metalock)) != 0)
  goto err;
 if ((ret = __memp_fget(mpf, &dbp->meta_pgno,
     ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta))
 != 0)
  goto err;

 /* Build meta-data page. */
 lsn = meta->dbmeta.lsn;
 __bam_init_meta(dbp, meta, dbp->meta_pgno, &lsn);
 if ((ret = __db_log_page(mdbp,
     txn, &meta->dbmeta.lsn, dbp->meta_pgno, (PAGE *)meta)) != 0)
  goto err;

 /* Create and initialize a root page. */
 if ((ret = __db_new(dbc,
     dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE, NULL, &root)) != 0)
  goto err;
 root->level = LEAFLEVEL;

 if (DBENV_LOGGING(env) &&
#if !defined(DEBUG_WOP)
     txn != NULL &&
#endif

     (ret = __bam_root_log(mdbp, txn, &meta->dbmeta.lsn, 0,
     meta->dbmeta.pgno, root->pgno, &meta->dbmeta.lsn)) != 0)
  goto err;
```

```
 meta->root = root->pgno;
 if ((ret =
     __db_log_page(mdbp, txn, &root->lsn, root->pgno, root)) != 0)
  goto err;

 /* Release the metadata and root pages. */
 if ((ret = __memp_fput(mpf, ip, meta, dbc->priority)) != 0)
  goto err;
 meta = NULL;
 if ((ret = __memp_fput(mpf, ip, root, dbc->priority)) != 0)
  goto err;
 root = NULL;
err:
 if
 (meta != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  meta, dbc->priority)) != 0 && ret == 0)
   ret = t_ret;
 if (root != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  root, dbc->priority)) != 0 && ret == 0)
   ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;
 if (dbc != NULL)
  if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
   ret = t_ret;
 return (ret);
}
```

1.98 gzip 1.10

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1.103 zlib 1.2.8

1.103.1 Available under license :

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

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1.104 dmidecode 3.5

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1.105 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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1.106 zlib 1.2.7

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1.107 kerberos 1.13

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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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uts/common/gssapi/include/mechglueP.h

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GSSAPI mechglue in GSSAPI-SPNEGO in
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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<span
class="o">/g_canon_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_compare_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_context_time.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_delete_sec_context.c
lib/<span
class="n">gssapi/mechglue<span
class="o">/g_dsp_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_dsp_status.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_dup_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_exp_sec_context.c
lib/gssapi<span
class="o">/<span
class="n">mechglue/g_export_name<span
class="o">.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_glue.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_imp_name.c
lib/gssapi<span
class="o">/mechglue/<span

class="n">g_imp_sec_context.c
lib/gssapi<span
class="o">/mechglue<span
class="o">/g_init_sec_context.<span
class="n">c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_initialize.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_inquire_context.c
lib/gssapi<span
class="o">/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
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class="n">gssapiP_spnego.h
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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
kprop/kpropd_rpc<span
class="o">.c
kprop/kproplog<span
class="o">.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
``src/lib/gssapi``, including the following files:

.. 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

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

.. 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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    <input type="submit" value="Go" />
    <input type="hidden" name="check_keywords" value="yes" />
    <input type="hidden" name="area" value="default" />
  </form>
      </div>
      <div class="clearer"></div>
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      <a href="build_this.html" title="How to build this documentation from the source"
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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
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation,

including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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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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1.108 coreutils 8.22

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1.110 libssh 0.18

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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, 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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All
Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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

Python was created in the early 1990s by Guido van Rossum at Stichting
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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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All Python releases are Open Source (see https://opensource.org/ for the Open
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+---------------+-------------+-----------+-----------+-----------------+
| Release | Derived from | Year | Owner | GPL compatible? |
+===============+=============+===========+===========+=================+

| 0.9.0 thru 1.2 | n/a | 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 | 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 |
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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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Sockets

The :mod:`socket`
module uses the functions, :func:`getaddrinfo`, and
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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
between ascii and binary. This results in a 1000-fold speedup. The C
version is still 5 times faster, though.
- Arguments more compliant with Python standard

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SipHash24

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

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
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

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1.114 tcl 8.3.0

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

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1.116 zlib 1.2.3.3

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1.117 tcl 8.4.19

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1.123 atk 1.33.6

1.123.1 Available under license :

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Version 2, June 1991

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1.124 bash 4.2.37

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* provide the source code of the modified version running there to the
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* To "convey" a work means any kind of propagation that enables other
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* a computer network, with no transfer of a copy, is not conveying.
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* 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.
*
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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.
*
* 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
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* work) run the object code and to modify the work, including scripts to
* control those activities. However, it does not include the work's
* System Libraries, or general-purpose tools or generally available free
* programs which are used unmodified in performing those activities but
* which are not part of the work. For example, Corresponding Source
* includes interface definition files associated with source files for
* the work, and the source code for shared libraries and dynamically
* linked subprograms that the work is specifically designed to require,
* such as by intimate data communication or control flow between those
* subprograms and other parts of the work.
*
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*
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* 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
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*   product that is covered
 by this License, on a durable physical
*   medium customarily used for software interchange, for a price no
*   more than your reasonable cost of physically performing this

```
*     conveying of source, or (2) access to copy the
*     Corresponding Source from a network server at no charge.
*
*     c) Convey individual copies of the object code with a copy of the
*     written offer to provide the Corresponding Source.  This
*     alternative is allowed only occasionally and noncommercially, and
*     only if you received the object code with such an offer, in accord
*     with subsection 6b.
*
*     d) Convey the object code by offering access from a designated
*     place (gratis or for a charge), and offer equivalent access to the
*     Corresponding Source in the same way through the same place at no
*     further charge.  You need not require recipients to copy the
*     Corresponding Source along with the object code.  If the place to
*     copy the object
 code is a network server, the Corresponding Source
*     may be on a different server (operated by you or a third party)
*     that supports equivalent copying facilities, provided you maintain
*     clear directions next to the object code saying where to find the
*     Corresponding Source.  Regardless of what server hosts the
*     Corresponding Source, you remain obligated to ensure that it is
*     available for as long as needed to satisfy these requirements.
*
*     e) Convey the object code using peer-to-peer transmission, provided
*     you inform other peers where the object code and Corresponding
*     Source of the work are being offered to the general public at no
*     charge under subsection 6d.
*
*   A separable portion of the object code, whose source code is excluded
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*
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*
*   "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
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* part of a transaction in which the right of possession and use of the
* User Product is transferred to the recipient in perpetuity or for a
* fixed term (regardless of how the transaction is characterized), the
* Corresponding Source conveyed under this section must be accompanied
* by the Installation Information. But this requirement does not apply
* if neither you nor any third party retains the ability to install
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*
* The requirement to provide Installation
Information does not include a
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* 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
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*
* Corresponding Source conveyed, and Installation Information provided,
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s method,access methods,Java,C,C++">
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Upstream Author: Christian Werner <chw@ch-werner.de>

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```
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  <link rel="next" href="sqlite_ver60.html" title="Updated SQLite Version" />
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  </th>
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```
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    <p>
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     upgrading to the 12c release. Previous releases of Berkeley DB software
     will continue to be distributed under the Sleepycat license.
   </p>
   </div>
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       <a accesskey="u" href="upgrade_60_toc.html">Up</a>
      </td>
      <td width="40%" align="right"><a accesskey="n" href="sqlite_ver60.html">Next</a></td>
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       <a accesskey="h" href="index.html">Home</a>
      </td>
      <td width="40%" align="right" valign="top">Updated SQLite Version</td>
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1.127 tcl 8.5.14

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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

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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
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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<span
class="o">/g_canon_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_compare_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_context_time.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_delete_sec_context.c
lib/<span
class="n">gssapi/mechglue<span
class="o">/g_dsp_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_dsp_status.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_dup_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_exp_sec_context.c
lib/gssapi<span
class="o">/<span
class="n">mechglue/g_export_name<span
class="o">.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_glue.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_imp_name.c
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class="n">g_imp_sec_context.c
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class="o">/mechglue<span
class="o">/g_init_sec_context.<span
class="n">c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_initialize.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_inquire_context.c

lib/gssapi<span
class="o">/mechglue/<span
class="n">g_inquire_cred.c
lib/gssapi<span
class="o">/mechglue<span
class="o">/g_inquire_names.c
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class="o">/mechglue/<span
class="n">g_process_context.c
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class="o">/mechglue/<span
class="n">g_rel_buffer.c
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class="o">/mechglue/<span
class="n">g_rel_cred.c
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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
kprop/kpropd_rpc<span
class="o">.c
kprop/kproplog<span
class="o">.c
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    </div>
  </div>
    </div>
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  <ul>
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</ul>

  <br/>
  <h2>Table of contents</h2>
  <ul>
<li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
<li class="toctree-l1"><a class="reference
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<li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
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  <br/>
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  <h4>Search</h4>
  <form class="search" action="search.html" method="get">
    <input type="text" name="q" size="18" />
    <input type="submit" value="Go" />
    <input type="hidden" name="check_keywords" value="yes" />
    <input type="hidden" name="area" value="default" />
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         >Contents</a> |
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         >previous</a> |
       <a href="copyright.html" title="Copyright"
         >next</a> |
      <a href="genindex.html" title="General Index"
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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',
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      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
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      </div>
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  <ul>
<li><a class="reference internal" href="#">Copyright</a></li>
</ul>

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  <h2>Table of contents</h2>
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<li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
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    <input type="submit" value="Go" />
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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
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lib/gssapi/mechglue/g_inquire_context.c
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lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
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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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the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c

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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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1.130 json-cpp 1.8.4

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1.131 rsyslog 7.4.7

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1.132 libidn 1.2

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1.133 bash 4.2.46

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1.134 ethtool 3.15

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1.135 libdaemon 0.14

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1.136 sudo 1.8.23

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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.

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
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Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
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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Pickett, Joel
Plotnick, Alex
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Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.

Roy, Alain
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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
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
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Toft, Martin
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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
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
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Kazik, Duan
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Koir, Klemen
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Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
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Sendn, Abel
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Taniguchi, Yasuaki
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1.137 glibc 2.16

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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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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
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However, linking a ``work that uses the Library'' with the Library
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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
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directing the user to the copy of
this License. Also, you must do one
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@enumerate a
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and (2) will operate
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@page
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1.138 libjpeg 8d

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The Independent JPEG Group's JPEG software
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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,
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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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The same holds for its supporting scripts (config.guess, config.sub,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium
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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
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and some added material. Note: the Wallace article is copyright ACM and IEEE,

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

The best 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
=================

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,
including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
===============

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ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16)
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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!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and
legal right to foreclose on certain standardization bodies and other
institutions or corporations that knowingly perform substantial and
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intentional consent.
The titles, ownership, and rights of these institutions and all their assets
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be fully transparent, accountable, and liable.
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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.

1.139 glibc 2.17-196.el7

1.139.1 Available under license :

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Version 2, June 1991

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

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1.140 dc 1.3

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Found in path(s):
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.m
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/ExampleTests/ExampleTests.m
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.h
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.m
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.h
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.h
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.h
*
/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/main.m
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.m
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.m
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.m
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.h
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.h
*
/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-

39be410/DCPathButton/Classes/DCPathItemButton.m
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* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist
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* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/ViewController.swift
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
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* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.m
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.h
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* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/README.md
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```
Pod::Spec.new do |s|

 s.name         = "DCPathButton"
 s.version      = "2.1.1"
 s.summary      = " A beautiful button copy from Path® "

 s.description  = <<-DESC
   DCPathButton is a menu button, design by an famous App Path®.
   Since Path® 4.0, it return to use a tab bar instead of a side bar,
   and also change the menu button. So I try to implement it and then
   the DCPathButton born :)
                DESC

 s.homepage     = "https://github.com/Tangdixi/DCPathButton"

 s.license      = {
```

```
:type => 'MIT',
:text => 'The DCPathButton use the MIT license'
}

s.author             = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform     = :ios, '7.0'

s.source       = {
:git => "https://github.com/Tangdixi/DCPathButton.git",
:tag => "2.1.1"
}

s.source_files  = 'DCPathButton/Classes/*.{h,m}'

s.resources  = ["DCPathButton/Sounds/*"]

s.frameworks = 'QuartzCore','AudioToolbox'

 s.requires_arc = true

end
```

Found in path(s):
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
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<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left" horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines" minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">

Found in path(s):
* /tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/Base.lproj/LaunchScreen.xib

1.141 libtiff 3.9.4-11.el7

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1.142 sqlite 3.7.14.1

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1.143 pixman 0.28.2

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*/

1.144 bison 2.7.12

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+ many more (please mail me if you are missing in this list and would
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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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"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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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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
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This option is useful when you wish to copy part of the code of
the
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

engineering for debugging such modifications.

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you distribute.

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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END OF TERMS AND CONDITIONS

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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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Ty Coon, President of Vice

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Version 3, 29 June 2007

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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.

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

TERMS AND CONDITIONS

0. Definitions.

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1. Source Code.

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

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

is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
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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
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The Corresponding Source for a work in source code form is that
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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

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6. Conveying Non-Source Forms.

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

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

b) Convey the object code in, or embodied in, a physical product

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

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

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

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

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

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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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
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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,
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installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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1.153 zeromq 4.2.3

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1.154 tcl 8.5.8

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 *
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 *
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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

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1.160 busybox 1.21.0

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1.165 attr 2.4.47

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1.171 mtd-utils 1.5.2

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1.181 libconfig 1.7.2

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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
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these notices.

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

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

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

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

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

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

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

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

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

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

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

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

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

b) Give prominent notice with the combined library of the fact 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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@sp 1
@center Preamble
@sp 1

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copies of the library or if you modify it.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work,
a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the ``Lesser'' General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

The precise terms and conditions for copying, distribution and

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

@page

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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
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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.

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

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the
files and the date of any change.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

@sp 1
@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.

@sp 1
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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

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

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

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Accompany the work with a written offer, valid for at least three years,

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for a charge no more than the cost of performing this distribution.

@sp 1
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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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Verify that the user has already received a copy of these materials or
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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,
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and of the other library facilities is otherwise permitted, and provided
that you do these two things:

@enumerate
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@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
distributed under the terms of the Sections above.

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

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1.183 sudo 1.8.19p2-10.el7

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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.

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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Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
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
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
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
Gezer, Volkan

Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen,
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Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

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

1.184 nginx 1.13.1

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1.186 python 3.7.4

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****
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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
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+---------------+-------------+-----------+-----------+----------------+
| Release | Derived from | Year | Owner | GPL compatible? |
+===============+=============+===========+===========+================+
| 0.9.0 thru 1.2 | n/a | 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 | 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 |
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| 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
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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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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
  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

The :mod:`xmlrpc.client` module contains the following notice::

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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

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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 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.

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1.189 elfutils 0.175

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1.192 libcheck 0.9.14

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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.

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work with the complete corresponding
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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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1.193 bsd-mailx 12.5-5

1.193.1 Available under license :

bsd-mailx for DEBIAN

The history of this package is quite complicated. The changelog
includes a summary with the different maintainers.

At the beginning of Debian, I think this package was based on a BSD 5.5

mail version from FreeBSD.

There has been a lot on work on the package shipped with Debian
0.93R6, which was based a BSD 8.1 mail version from BSD4.4Lite. The
extensions includes support for dotfile locking, setgid support, POP
support, signal handling hacks.

here is a README originally found:
+ README for Berkely mailx version 8.1 with POP extension
+
+ This is "mailx", a simple program for sending and receiving email.
+
+ This is based on mailx version 8.1 (as distributed with BSD 4.4lite).
+
+ It has been extended to support the post-office protocol (POP). Run
+ "mail -p" and it will retrive your email from a POP server rather than
+ from your local mail queue. See the manual page for more details.
+
+ The POP support was written
by Jonathan I. Kamens for version mailx 5.5
+ (as distributed with BSD 4.3.)
+
+ The POP support was integrated into version 8.1 by Salvatore Valente
+ for no particular reason. (It would have been simpler for me to
+ simply use Jonathan's 5.5 source tree. There are no major differences
+ between the two versions.)
+
+ Have a nice day.
+ -Salvatore Valente. <svalente@athena.mit.edu>
+ 5/12/94
+
+
+ PORTING
+
+ Before attempting to compile this for _any_ system, you should do two
+ things:
+
+ Edit CFLAGS in Makefile.
+ Edit pathnames.h.
+
+ These sources are _extremely_ BSDish. I have successfully built this
+ for Linux, BSD 4.3, NetBSD, Ultrix, Aix, and SunOS. I have never
+ successfully gotten it to build for Solaris or any System 5ish system.
+ If you want to try, here are some issues you will face:
+
+ It uses BSD signal() semantics. Use sigaction().
+ It uses BSD longjmp() semantics. Use siglongjmp().
+

It uses BSD sgtty. Use termios.
+ It uses BSD signal mask functions. Use posix sigmask functions.
+
+ There will probably be other hurdles too. Good luck.

With Debian1.1 a switch was done to a version base on a BSD5.5 mail
program, because of signal handling problems (which I think were due
to bad compilation options). So no more POP support. Some patches
from Ken Whang <Kenneth.C.Whang-1@umn.edu> included, the corresponding
README was:
+ mailx-5.5-kw 5/30/95
+
+
+ WHAT'S IN THIS PATCH
+
+ There are a bunch of little features, common in System V and SunOS
+ versions of mailx, that are missing from the NetBSD-based version
+ distributed with Linux. This patch attempts to fill in some of what's
+ missing.
+
+ Changes from debian mailx-5.5 include:
+
+ 5/4/95:
+
+ -- interpret prompt variable
+ -- interpret ~a and ~A tilde escapes
+ -- updated tildehelp list
+ -- changed mail.rc to ignore nothing (just my personal preference)
+ -- accept
From lines with times of the form hh:mm (formerly took only hh:mm:ss)
+
+ 5/7/95:
+
+ -- Save (S) command saves to mailbox named after author
+ -- take startup commands from file named by environment variable MAILRC
+
+ 5/30/95:
+
+ -- -H switch for header summary only
+
+ Still to be done:
+
+ -- pipe ~p output through PAGER (see type1 in cmd1.c for an example)
+ -- save (s) by default to MBOX (instead of "No file specified.")
+ -- ~q should save to dead.letter, ~x is not known
+ -- update man page
+ -- allnet and showto ("showto" shows recipient instead of sender if sender

+ is current user)
+
+ Possibly difficult:
+
+ -- interpret editheaders variable as in SunOS version
+
+ Bugs:
+
+ -- ~a,~A tilde escapes leave an extra trailing blank on each line
+ -- to conform to original style, I should really be using char *cp
+ instead of new variables sig and prompt to be looking up variables
+ -- -H switch implementation
is kind of gross. grep for "hdronly" in
+ source files; much room for improvement!
+
+
+ HOW TO INSTALL
+
+ Apply Sal Valente's debian patch first, so:
+
+ tar xvfz mailx-5.5.tar.gz
+ cd mailx-5.5
+ zcat ../mailx-5.5.debian.diff.gz | patch -p1
+ zcat ../mailx-5.5-kw.diff.gz | patch -p1
+ make
+
+ Or you may wish to just uncompress the diff file and pick and choose
+ the changes that you like.
+
+
+ AUTHOR
+
+ Ken Whang <Kenneth.C.Whang-1@umn.edu>

This version has no provision for the debian mail policy (permission
on /var/mail+dotfile locking), so Loic Prylli
<lprylli@graville.fdn.fr> finally recreate a package based on the OpenBSD
mail with the minimum number of patches to make it suited for debian
(see changelog). There is no more POP support, nor the added
functionality from Ken Whang, but all these patches are archived, so
mail <lprylli@graville.fdn.fr> if you want them to be incorporated.

Loic Prylli
<lprylli@graville.fdn.fr>, Mon, 23 Dec 1996 00:13:13 +0100

Sat Apr 4 14:05:38 CEST 1998:

After a security patch to fix tmp races, a number of things broke.
Here is what I have tried to fix them:
The rationale is to have all file openings go through safe_open:
File opened in mode "w", "w+", are created with O_EXCL mode,
(should coincide with temporary files or new files)
Files with "a" "a+" et "r+" mode do not require the O_EXCL files. "a+" et "r+" do not creat the file.

Still to do: check creat calls
3.0 (quilt)
diff-ignore
tar-ignore
00-Makefiles.patch
01-Fix-includes.patch
02-Base-fixes-1.patch
03-Base-fixes-2.patch
04-Add-custom-header.patch
05-Mailx-fixes.patch
06-Use-lockf-instead-of-flock.patch
07-Initialize-head-struct.patch
08-Use-liblockfile-library.patch
09-Saved-mbox-message.patch
10-Reply-To-header.patch
11-Showname-option.patch
12-REPLYTO-can-be-set-in-.mailrc-too.patch
13-Mailx-concatenates-messages.patch
14-Truncate-mailbox-instead-of-deleting-it.patch
15-No-space-left-in-tmp.patch
16-Stdin-not-a-tty.patch
17-Intialize-tv_used.patch
18-Wait-for-sendmail.patch
19-Fix-compilation-on-Hurd.patch
20-Don-t-delete-temporary-file.patch
21-Use-wordexpr-instead-of-echo.patch
22-Replace-newlines-with-spaces.patch
24-False-cant-send-email-errors.patch
25-Fix-confusing-error.patch
80-remove_T.patch
81-minus_f.patch
82-expandaddr.patch
83-nosendmail.patch
This package was debianized by Loic Prylli <lprylli@graville.fdn.fr> on
Mon, 23 Dec 1996 00:13:13 +0100.
The package is currently maintained by Robert Luberda <robert@debian.org>

It is now based on OpenBSD in directory src/usr.bin/mail on a lot of major
ftp sites.
See the README.Debian (and changelog.Debian) for the complicated history

of the Debian package.

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LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
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OF
SUCH DAMAGE.
etc
usr/bin
usr/share/bsd-mailx
usr/share/man/man1
9
#!/usr/bin/make -f

include /usr/share/dpkg/architecture.mk

ifneq ($(DEB_HOST_GNU_TYPE),$(DEB_BUILD_GNU_TYPE))
export CC = $(DEB_HOST_GNU_TYPE)-gcc
else
export CC = gcc

```
endif

%:
 dh "$@" --parallel

override_dh_auto_clean:
 # Don't try to run make clean on unpatched version of Makefile
 ! grep -q DEBIAN Makefile || dh_auto_clean

override_dh_installchangelogs:
 dh_installchangelogs -a debian/EXT/ChangeLog
bsd-mailx (8.1.2-0.20131005cvs-1ubuntu0.14.04.1) trusty-security; urgency=medium

 * SECURITY UPDATE: shell command injection
   - Apply OpenBSD patches from Todd Miller (taken from Debian update):
     + 80-remove_T.patch (remove undocumented/obsolete -T option)
     + 81-minus_f.patch (adjust -f processing)
     + 82-expandaddr.patch (fix CVE-2014-7844)
     + 83-nosendmail.patch (make -- work for option parsing suppression)
   - CVE-2014-7844

-- Marc Deslauriers <marc.deslauriers@ubuntu.com>  Mon, 05 Jan 2015 11:36:44 -0500

bsd-mailx (8.1.2-0.20131005cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * Remove 23-Treat-new-line-only-messages-as-empty-ones.patch, introduced
   in 1:8.1.2-0.20071017cvs-1 so that bsd-mailx will behave like other mailx
   implementations and will not treat messages containing a single new line
   only as an empty ones (LP: #607099, reopens #355545).
 * Extend description of this package to mention the fact
 that bsd-mailx lacks
   many features that may be found in other packages like heirloom-mailx
   or mailutils (closes: #508303).
 * Add 26-Fix-confusing-error.patch to make a message given when -b is used
   without -t less confusing (closes: #327809).
 * Fix 00-Makefile.patch not to override CC and pass CPPFLAGS while compiling.
 * debian/rules:
   + apply patch from Ubuntu to respect DEB_HOST_GNU_TYPE when selecting CC
     for cross-compiling;
   + do not try to run make clean on unpatched Makefile.
 * Bump Standards-Version to 3.9.4 (no changes).

-- Robert Luberda <robert@debian.org>  Sun, 06 Oct 2013 11:58:42 +0200

bsd-mailx (8.1.2-0.20111106cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
```

* Drop the additional source files from EXT directory, use libbsd-dev
  instead. Move EXT to debian.
* 00-Makefile: don't override CFLAGS set in environment.
* Switch to dpkg-source 3.0 (quilt) format.
* Use debhelper v9 and tiny debian/rules
file.
* debian/control:
  + Build-Depends on libbsd-dev;
  + Standards-Version: 3.9.2;
  + use Breaks instead of versioned Conflicts;
  + add Vcs fields;
  + reformat the dependencies fields with `wrap-and-sort' command.
* Include full text of BSD licence in copyright (lintian).

-- Robert Luberda <robert@debian.org> Sun, 20 Nov 2011 23:37:22 +0100

bsd-mailx (8.1.2-0.20100314cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* Follow upstream and stop installing the outdated documentation
  (closes: #455708); also remove doc-base file.
* debian/control:
  + depend on default-mta instead of exim4 (closes: #555495);
  + add ${misc:Depends} dependency (lintian);
  + Standards-Version: 3.8.4 (no changes).

-- Robert Luberda <robert@debian.org> Sun, 14 Mar 2010 13:22:18 +0100

bsd-mailx (8.1.2-0.20090911cvs-2) unstable; urgency=medium

* Fix a bogus "can't send mail: sendmail process failed" errors appearing
  rarely
on systems under heavy loads (closes: #550116).
  Many thanks to Ivan Zahariev <famzah(at)icdsoft.com> for his investigation
  and patch.

-- Robert Luberda <robert@debian.org> Sat, 10 Oct 2009 11:21:11 +0200

bsd-mailx (8.1.2-0.20090911cvs-1) unstable; urgency=low

* New upstream release from OpenBSD repository.
* Fix grammar in description (closes: #515781).
* Drop mailx transitional package.
* Bump debhelper compat mode to 7.
* Standards-Version: 3.8.3

-- Robert Luberda <robert@debian.org> Fri, 11 Sep 2009 18:14:22 +0200

bsd-mailx (8.1.2-0.20081101cvs-2) unstable; urgency=low

 * Upload to unstable.

-- Robert Luberda <robert@debian.org> Sun, 09 Nov 2008 09:00:25 +0100

bsd-mailx (8.1.2-0.20081101cvs-1) experimental; urgency=low

 * New upstream release.
 * Lower priority of mailx package to extra.
 * Standards-Version: 3.8.0 (no changes).
 * Remove duplicated `it' from description (lintian).

-- Robert Luberda <robert@debian.org> Sat, 01 Nov 2008
 12:40:12 +0100

bsd-mailx (8.1.2-0.20071201cvs-3) unstable; urgency=low

 * Lower priority of mailx package to optional (see #477124).
 * copyright: Add a copyright notice (lintian).
 * Build depend on debhelper >= 6 (lintian).
 * Change doc-base section to Network/Communication (lintian).

-- Robert Luberda <robert@debian.org> Sat, 26 Apr 2008 09:52:18 +0200

bsd-mailx (8.1.2-0.20071201cvs-2) unstable; urgency=medium

 * Add conflict with old mailx packages (closes: #459621).
 * Standards-Version: 3.7.3 (no changes).
 * Fix invalid regexp in postinst.

-- Robert Luberda <robert@debian.org> Tue, 08 Jan 2008 23:01:18 +0100

bsd-mailx (8.1.2-0.20071201cvs-1) unstable; urgency=low

 * New upstream version.
 * Rename package to bsd-mailx, and create dummy mailx package for smooth
   upgrades.
 * Manage /usr/bin/mailx with update-alternatives to allow other packages
   like mailutils or nail to be installed together with bsd-mailx.
 * Remove outdated preinst script.

--
 Robert Luberda <robert@debian.org> Sat, 01 Dec 2007 12:54:13 +0100

mailx (1:8.1.2-0.20071017cvs-2) unstable; urgency=low

 * collect.c: Ooops, for debugging I commented out the line responsible

for removing temporary, and forgot to uncomment it...

-- Robert Luberda <robert@debian.org> Fri, 19 Oct 2007 23:10:11 +0200

mailx (1:8.1.2-0.20071017cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * send.c: treat messages which contain only a new line sign as empty
   messages (closes: #355545).
 * Fix ` debian-rules-ignores-make-clean-error' lintian warning.
 * Bump debhelper compat mode to v6.

-- Robert Luberda <robert@debian.org> Thu, 18 Oct 2007 23:35:53 +0200

mailx (1:8.1.2-0.20070424cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * Standards-Version: 3.7.2.
 * Lower package priority to standard to match the override file.
 * main.c: Replace with spaces any embeded newline passed in arguments

  for '-s' and '-a' options (closes: #419840).
 * mail.1: Fix a typo (closes: #411420).

-- Robert Luberda <robert@debian.org> Thu, 03 May 2007 12:09:36 +0200

mailx (1:8.1.2-0.20050715cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository:
   + fixed segfault in list.c (closes: #313306).
 * Standard-Version: 3.6.2 (no changes).

-- Robert Luberda <robert@debian.org> Fri, 15 Jul 2005 00:28:33 +0200

mailx (1:8.1.2-0.20040524cvs-4) unstable; urgency=low

 * Fix documentation of sendmail options in the man page and in the
   mailx's usage output (closes: #285259).

-- Robert Luberda <robert@debian.org> Sat, 18 Dec 2004 13:58:28 +0100

mailx (1:8.1.2-0.20040524cvs-3) unstable; urgency=medium

 * fio.c: Fix segfault on wildcard expansion introduced in previous upload.
   Thanks to Yuri D'Elia for noticing this (see bug#148389).

-- Robert Luberda <robert@debian.org> Sat, 13 Nov 2004 22:23:14 +0100

mailx (1:8.1.2-0.20040524cvs-2) unstable; urgency=medium

  * Bugfix release (closes: #278748):
    + fio.c: Use wordexpr() instead of calling /bin/echo not to allow
      executing external commands while expanding shell variables
      and wildcards.
    + names.c: isfileaddr function return false if '@', '!' or '%' i
      characters occur anywhere (e.g not only before the slash) in the
      recipient name.

-- Robert Luberda <robert@debian.org> Wed, 3 Nov 2004 20:46:39 +0100

mailx (1:8.1.2-0.20040524cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * debian/control: add exim4 alternative to mail-transport-agent
   dependency (closes: #248498).
 * USD.doc/mail*.nr: changed references from /usr/lib/Mail.rc to
   /etc/mail.rc.
 * USD.doc/Makefile, debian/rules: generate and install manual.txt
   (like in the upstream version).
 * Removed lintian override file, it's no longer needed.
 * Add lintian source overrides for `cvsignore-file-in-source'
   and `source-contains-CVS-dir'.

--
 Robert Luberda <robert@debian.org> Mon, 24 May 2004 23:03:47 +0200

mailx (1:8.1.2-0.20031014cvs-2) unstable; urgency=medium

 * edit.c: if the external editor (called by ~e or ~v commands) fails for
   some reason, don't delete the temporary file if it has been modified.
   This partly fixes bug#148037.
 * popen.c: print exit code of failed commands.
 * quit.c: change message saying that mailbox was "removed" to "truncated"
   (closes: #196682); mailx does not remove mailboxes, see the entry
   for 1:8.1.2-0.20020316cvs-2 in this changelog for the reason.

-- Robert Luberda <robert@debian.org> Wed, 31 Mar 2004 23:42:19 +0200

mailx (1:8.1.2-0.20031014cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD.
 * Fix problem with building on Hurd (closes: #213929).
 * mail.1: removed reference to non-existent lockspool man page.
 * Standards-Version: 3.6.1 (no changes).

-- Robert Luberda <robert@debian.org> Tue, 14 Oct 2003 20:48:51 +0200

mailx (1:8.1.2-0.20030521cvs-1)
 unstable; urgency=low

 * New upstream version from OpenBSD.
 * Added EXT/vis.[ch] files, needed for compiling this version.
 * Minor fix in Makefile (closes: #181022).
 * debian/control: Remove ending dot from synopsis line (lintian).
 * Standards-Version: 3.5.10 (no changes).

-- Robert Luberda <robert@debian.org> Thu, 22 May 2003 21:12:21 +0200

mailx (1:8.1.2-0.20020411cvs-5) unstable; urgency=low

 * cmd1.c: Check if return value of screensize() > 0 (closes: #170784).
 * Support DEB_BUILD_OPTIONS=noopt instead of debug.
 * Build with debhelper v4.
 * Standards-Version: 3.5.8.

-- Robert Luberda <robert@debian.org> Sat, 7 Dec 2002 11:42:34 +0100

mailx (1:8.1.2-0.20020411cvs-4) unstable; urgency=low

 * send.c: Always wait for a sendmail process, check its exit code
   and if non-zero, print a warning message to user and save original
   message to ~/dead.letter (closes: #145379).
 * popen.c: Make wait_child() return an exit code of the child.

 * mail.1:
 s/^\.ne li$/.ne/g to fix groff warnings.

-- Robert Luberda <robert@debian.org> Sat, 24 Aug 2002 22:15:23 +0200

mailx (1:8.1.2-0.20020411cvs-3) unstable; urgency=low

 * aux.c: in function alter() do initialize tv_usec part of the
   timeval structure used to set modification time on the mailbox
   file (closes: #152038).
   Thanks to John Girash for help.

-- Robert Luberda <robert@debian.org> Thu, 11 Jul 2002 05:21:34 +0200

mailx (1:8.1.2-0.20020411cvs-2) unstable; urgency=low

 * collect.c: return from grabh() if stdin is not a terminal.
   This fixes the `-I' option (closes: #149005).

-- Robert Luberda <robert@debian.org> Tue, 18 Jun 2002 22:55:27 +0200

mailx (1:8.1.2-0.20020411cvs-1) unstable; urgency=high

 * New upstream CVS snapshot, with only one change, which fixes
   potential security problem:
   + collect.c:
     Don't do tilde escapes unless we are in interactive mode. Now the
     behavior matches the man page...
 * Many thanks to Michal
 Pajak for pointing out the problem.

-- Robert Luberda <robert@debian.org> Thu, 11 Apr 2002 19:07:59 +0200

mailx (1:8.1.2-0.20020316cvs-3) unstable; urgency=low

 * fio.c: fixed previous patch (closes: #140527,#140485).

-- Robert Luberda <robert@debian.org> Tue, 2 Apr 2002 07:14:58 +0200

mailx (1:8.1.2-0.20020316cvs-2) unstable; urgency=low

 * fio.c: Don't delete mailbox file, always truncate it, because liblockfile
   fails to remove the lock file if mailbox doesn't exist (closes: #111537).

-- Robert Luberda <robert@debian.org> Wed, 27 Mar 2002 09:20:08 +0100

mailx (1:8.1.2-0.20020316cvs-1) unstable; urgency=low

 * Applied patches from Arnaud Giersch <arnaud.giersch@free.fr>
   which fix outstanding problems:
   + closes: #37104: Bug in all mailx* (tested: <=mailx_8.1.1-10).
   + closes: #71759: mailx concatenates messages.
   MANY THANKS FOR YOUR HELP, Arnaud!

 * New upstream version from OpenBSD CVS repository:
   + closes: #34752: mail causes segmentation
 fault when pushing Ctrl+C.
 * This version uses strlcpy&strlcat functions, appropriate files were
   included in Debian patch.
 * Added upstream changelog file, generated by hand from CVS logs using
   `cvs2cl --no-wrap -S'.
 * Makefile: added -p option to install (preserve timestamps of installed
   files).

-- Robert Luberda <robert@debian.org> Tue, 26 Mar 2002 05:47:53 +0100

mailx (1:8.1.2-0.20010922cvs-3) unstable; urgency=low

* debian/copyright: text of BSD license can be found in common-licences,
  so do not include it here...

-- Robert Luberda <robert@debian.org> Fri, 4 Jan 2002 08:13:30 +0100

mailx (1:8.1.2-0.20010922cvs-2) unstable; urgency=low

* debian/copyright: removed 3th paragraph from the text of BSD license
  as suggested by Branden Robinson (closes: #123828).
* Upgraded standards version to 3.5.6 (no changes needed).

-- Robert Luberda <robert@debian.org> Sat, 22 Dec 2001 21:56:31 +0100

mailx (1:8.1.2-0.20010922cvs-1) unstable; urgency=low

  * New version from OpenBSD cvs repository:
   + aux.c: In skin(), only add a space after a comma if there is actually a
     space in the input buffer. This prevents a rare buffer overflow on very
     long header lines... (closes: #108677). See #108677 for more info.
   + aux.c: In skin() don't die if realloc() fails since its only purpose is
     to shrink the buffer, not expand it.

* No other changes was made, so I think this version should go to woody
  as well.

-- Robert Luberda <robert@debian.org> Sun, 23 Sep 2001 21:42:22 +0200

mailx (1:8.1.2-0.20010705cvs-2) unstable; urgency=low

* Removed exim from exim|mail-transport-agent dependency (closes: #106122).
* Added a lintian override file for virtual-package-without-real-package-
  dependency warning.
* Fix spelling in description of the package (closes: #106449).

-- Robert Luberda <robert@debian.org> Wed, 8 Aug 2001 23:31:21 +0200

mailx (1:8.1.2-0.20010705cvs-1) unstable; urgency=low

* New version
from OpenBSD cvs.
* Updated copyright and README.Debian files.
* Removed IOSAFE patch - it wasn't used.
* REPLYTO can be set in ~/.mailrc too.

-- Robert Luberda <robert@debian.org> Thu, 12 Jul 2001 18:58:01 +0200

mailx (1:8.1.2-0.20010319cvs-4) unstable; urgency=low

* Applied patch from Tormod Volden <volden@iqe.phys.ethz.ch>, which adds
  "showname" option to mailx (closes: #96867).
* v7.local.c: Removed /var/spool/mail hack added by Paul in 1:8.1.1-10.1.1
* quit.c: Use lockf instead if flock.
* quit.c: Add missing newline in `Saved ...' message.
* Added doc-base support.
* Added versioned dependency on base-files, as suggested in upgrading-
  checklist for Debian Policy 3.5.4.
* Standards-Version: 3.5.5

-- Robert Luberda <robert@debian.org> Tue, 12 Jun 2001 23:43:10 +0200

mailx (1:8.1.2-0.20010319cvs-3) unstable; urgency=low

* Applied some patches from FreeBSD:
  + Add Relpy-To header if REPLYTO environment variable is set.
  + Add In-Reply-To
 header for replies (closes: #23115).
* When saving messages to mbox, print its real filename (closes: #68920).
  Thanks to Tollef Fog Heen for patch.
* /etc/mail.rc: Add Delivered-To to list of ignored headers.

-- Robert Luberda <robert@debian.org> Wed, 4 Apr 2001 00:20:57 +0200

mailx (1:8.1.2-0.20010319cvs-2) unstable; urgency=low

* Don't ask about (B)Cc: header twice (closes: #90822).

-- Robert Luberda <robert@debian.org> Fri, 23 Mar 2001 23:47:43 +0100

mailx (1:8.1.2-0.20010319cvs-1) unstable; urgency=medium

* New maintainer (closes: #90146).
* New upstream version from OpenBSD CVS repository.
* Security fix: don't install mailx binary setgid mail.
  Now the liblockfile library is used for mailbox locking.
* cmd3.c: Initialize head variable with NULLs. This should fix
  problem with garbage text when replying (closes: #84166).
* Add conflicts with older suidmanager.
* Helpfiles moved to /usr/share/mailx.
* Added support for DEB_BUILD_OPTIONS=debug,nostrip.
 * Updated Standards-Version: 3.5.2
* Switch to debhelper v3.
* Updated Build-Depends field.
* Closing bugs fixed in NMUs (closes: #23901, #64238, #68725, #68745).

-- Robert Luberda <robert@debian.org> Thu, 22 Mar 2001 08:05:56 +0100

mailx (1:8.1.1-10.3) unstable; urgency=low

 * debian/rules: added install dependancy to binary-arch (Closes: Bug#83361).

-- Edward Betts <edward@debian.org> Sun, 28 Jan 2001 14:40:05 -0700

mailx (1:8.1.1-10.2) unstable; urgency=low

 * debian/control: Standards-Version updated.
 * debian/control: Build-Depends added.
 * debian/control: Depends line fixed (Closes: Bug#41909).
 * debian/rules: rewritten, still uses debhelper.
 * Makefile: man pages moved to /usr/share/man (Closes: Bug#80758).
 * applied patch from Martin Schulze (Closes: Bug#23356, Bug#13756).
 * applied patch from Ulf Jaenicke-Roessler <ujr@physik.phy.tu-dresden.de>
   (Closes: Bug#26757, Bug#40424).
 * misc/mail.help, USD.doc/mail[1568].nr: changed
 references from
   /usr/spool/mail to /var/mail (Closes: Bug#41910).
 * send.c: Comment out bcc code (Closes: Bug#75232).
 * pathnames.h: Change default shell from /bin/csh to /bin/sh.
 * pathnames.h: Change default pager from /bin/more to
   /usr/bin/pager (Closes: Bug#41228).
 * pathnames.h: Change default editor from /bin/ex to /usr/bin/editor
   (Closes: Bug#66385).
 * debian/rules: stop using dh_suidregister

-- Edward Betts <edward@debian.org> Sun, 14 Jan 2001 12:36:16 -0700

mailx (1:8.1.1-10.1.3) frozen unstable; urgency=high

 * Fix the security fix: only accept a couple environment variables
   instead of blindly using them all

-- Wichert Akkerman <wakkerma@debian.org> Tue, 8 Aug 2000 11:42:02 -0700

mailx (1:8.1.1-10.1.2) frozen unstable; urgency=high

 * Another security problem: refuse to get the interactive variable
   from the environment by explicitly setting it in the hashtable.

-- Wichert Akkerman <wakkerma@debian.org> Mon, 7 Aug 2000 12:36:10
 -0700

mailx (1:8.1.1-10.1.1) frozen unstable; urgency=high

 * NMU to fix RC bug. Now accepts both /var/mail and /var/spool/mail as
   allowed places for setgid file manipulation. fixes:#64238

-- Paul Slootman <paul@debian.org> Thu, 8 Jun 2000 19:51:14 +0200

mailx (1:8.1.1-10.1) stable frozen unstable; urgency=high

 * Security fix for a GID=mail shell.

-- Daniel Jacobowitz <dan@debian.org> Sun, 4 Jun 2000 22:45:19 -0700

mailx (1:8.1.1-10) frozen unstable; urgency=high

 * correct major security flaw, patch from Alvaro Martinez Echevarria
   <alvaro@lander.es>, bug#23880, bug#23901

 * other potential buffer overflow, patch from Juan-Mariano de Goyeneche
   <jmseyas@selva.dit.upm.es>, bug #22937

-- Loic Prylli <Loic.Prylli@graville.fdn.fr> Sun, 28 Jun 1998 20:15:18 -0400

mailx (1:8.1.1-9) frozen unstable; urgency=high

 * recompile without the signal handling workarounds (lo
    that eliminate critical bugs where message parts can be lost
    (#20798) and (#20558)

 -- Loic Prylli <lprylli@graville.fdn.fr> Thu, 9 Apr 1998 02:11:26 +0200

mailx (1:8.1.1-8) frozen unstable; urgency=high

 * previous patch broke most file accesses, corrected safe_open (#20634)
 * try to check every access to Fopen, change "a" into "w" for new files,
   to suit behaviour of safe_open.

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 4 Apr 1998 22:01:19 +0200

mailx (1:8.1.1-7) frozen; urgency=medium

 * security fix for tmp races patch from Martin Schulze (#20059)

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Mar 1998 22:52:35 +0100

mailx (1:8.1.1-6) unstable; urgency=low

 * convert to debhelper
 * changelog now compressed (bug#15431)
 * removed .orig and .rej from source (bug#18409)

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 14 Feb 1998 14:34:22 +0100

mailx (1:8.1.1-5) unstable; urgency=low

 * apply David Brown patch so mailx choose the right window size
   (#12197)
 * correct Depends: in control file.

-- Loic Prylli <lprylli@graville.fdn.fr>
  Sat, 15 Nov 1997 00:30:38 +0100

mailx (1:8.1.1-4) unstable; urgency=high

 * mailx was sending empty message, ignoring user input
   add clearerr when EAGAIN occur in "IOSAFE" code (#14263)

-- Loic Prylli <lprylli@graville.fdn.fr> Tue, 11 Nov 1997 20:22:35 +0100

mailx (1:8.1.1-3.1) unstable; urgency=low

 * Non-maintainer release.
 * Libc6 compile. (#11705)
 * Install missing symlink to manpage. (#7274)

-- Martin Mitchell <martin@debian.org> Wed, 29 Oct 1997 04:34:39 +1100

mailx (1:8.1.1-3) unstable; urgency=low

 * add dpkg --assert-working-epoch in preinst bug#6850
 * add writing of pid in mailbox locking file
 * fix:mailx was not removing temporary lock files

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 1 Feb 1997 11:44:04 +0100

mailx (1:8.1.1-2) unstable; urgency=low

 * correct bug #2733 (occur when no space left) dans quit.c
 * detection of From_ lines with tring to match the date bug#2010
 * corrected garble output bug #2284

-- Loic
 Prylli <lprylli@graville.fdn.fr> Sat, 28 Dec 1996 15:02:22 +0100

mailx (1:8.1.1-1) unstable; urgency=medium

 * recreate completely starting from OpenBSD mail version (we loose a lot
   of extension but we have a working program now)
 * OpenBSD base version is the last one in december 96

 * rechange the numbering of version, so epoch 1+8.1 is from 4.4BSD, the
   last upstream digit is to change each time we update to a new openbsd
   version.
 * fix the problem of longjmp inside signals inside stdio calls
 * reincorporate a patch to be dot file locking+setgid safe
 * some fix in signal handling

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Dec 1996 01:57:44 +0100

Mon Apr 29 17:21:42 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

 * releasing 8.5.5-1

 * added symlink /usr/bin/Mail -> /usr/bin/mailx

Thu Apr 25 23:55:36 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

 * set version number to 8.5.5 because it has to superseed 8.1

 * switched back to mailx-5.5-kw (see mailx-5.5-kw.diff.README)

 * no POP support

mailx 8.1 Debian 5 - 10/19/95 Sven Rudolph <sr1@inf.tu-dresden.de>
* uses now BSD signal emulation (/usr/include/bsd/signal.h)
* added virtual package names in Depends: and Provides fields (Bug#1460)
* added Section: field
* created symlink for mailx manpage (Bug#1114)

mailx 8.1 Debian 4 - 5/20/95 Carl Streeter <streeter@cae.wisc.edu>
* Added diffs from Delman Lee <delman@mipg.upenn.edu>:

  Hi! I got mailx-8.1-3 from the Linux Debian distribution, and have
  added a "hold-pop" option to hold messages on the POP server after
  retrieving them. (Also fixed a minor bug with mailx thinking that there
  is mail even if the POP mailbox is empty. Code around stat() below.)

mailx 8.1 Debian 3 - 4/18/95 Carl Streeter <streeter@cae.wisc.edu>
* Fixed control file to depend on smail|sendmail. Updated to latest
 guidelines
bsd-mailx source: source-contains-cvs-control-dir
Source: bsd-mailx
Section: mail
Priority: standard
Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
XSBC-Original-Maintainer: Robert Luberda <robert@debian.org>
Standards-Version: 3.9.4

Build-Depends: debhelper (>= 9),
groff,
libbsd-dev (>= 0.3),
liblockfile-dev (>= 1.05)
Vcs-Git: git://anonscm.debian.org/users/robert/bsd-mailx.git
Vcs-Browser: http://anonscm.debian.org/gitweb/?p=users/robert/bsd-mailx.git

Package: bsd-mailx
Architecture: any
Depends: base-files (>= 2.2.0),
default-mta | mail-transport-agent,
${misc:Depends},
${shlibs:Depends}
Provides: mail-reader, mailx
Breaks: mailutils (<< 1:1.1+dfsg1-4), mailx (<< 1:20071201)
Replaces: mailx (<< 1:20071201)
Description: simple mail user agent
bsd-mailx is the traditional simple command-line-mode mail user agent.
Even if you don't use it, it may be required by other programs.
.
The /usr/bin/mail command provided by this package is a very
simple one,
and does not include many features that can be found in more advanced
mail user agents.
.
For example bsd-mailx DOES NOT support:
- MIME (i.e. no attachments, no UTF-8 or other charsets support);
- SMTP protocol (/usr/sbin/sendmail interface only is used);
- POP3/IMAP (bsd-mailx reads local mailboxes only);
- maildir format (traditional mbox only format is supported).
.
If the above features are needed, please consider installing another package
providing similar /usr/bin/mail interface:
- heirloom-mailx package,
- or mailutils package.

1.194 jemalloc 5.2.1

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1.195 netcf 0.2.8

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1.196 lzo 2.10

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1.200 pam 1.1.6

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1.201 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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   2018 Joe Blow, John Coe
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:toc:
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necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

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1.202 cyrus-sasl 2.1.26-21.el7

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* Tim Martin
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1.206 curl 7.18.2

1.206.1 Available under license :

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

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
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problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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1.207 sqlite 3.0.0

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1.208 linux-kernel 4.9.170

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
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*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather

lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*   as needed. This means that data must always be copied to create
*   the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*   Fix is simple: make large buffers large enough to hold entire
*   SDU, and leave <small_buffer_data> bytes empty at the start. Then
*   copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*   buffers. This is done by 2 things:
*   1) skb->destructor / skb->atm.recycle_buffer
*   combined, allow nicstar_free_rx_skb to be called to
*   recycle large data buffers
*   2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*   details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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1.209 curl 7.56.1

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1.210 rsyslog 8.1908.0

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1.215 sed 4.2.2 5.el7

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

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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consider it more useful to permit linking proprietary applications with the
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When a program is linked with a library, whether statically or using
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combined work, a derivative of the original library. The ordinary
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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
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Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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 4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete
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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 distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
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
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will
operate properly with a modified version of the library, if
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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
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d) If distribution of the work is made by offering access to copy
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1.218 xz 5.2.2 1.el7

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can use it too, but we suggest
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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.

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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.

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allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use
the Lesser General Public License.

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

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

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

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
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work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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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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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,

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

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be
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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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1.223 net-tools 2.0 0.17.20131004git.el7

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1.227 pam 1.1.8 18.el7

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1.229 nspr 4.13.1 1.0.el7_3

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1.234 numactl 2.0.9 6.el7_2

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1.238 glib 2.50.3 3.el7

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1.239 netbsd-resolv 2.17 196.el7_4.2

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1.240 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.

Author: Julio Merino <jmmv84@gmail.com>

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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>
</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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1.242 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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<!-- $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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* 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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1.245 curl 7.28.1

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1.246 strace 4.10

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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.

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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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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<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

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

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

That's all there is to it!
#!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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1.267 libconfig 1.7.2

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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

@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

@sp 1
@item
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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.

@sp
1
@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.

@sp 1
@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.

@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 themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

@sp 1
@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.

@sp 1
@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.

@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.

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.

@sp 1
@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
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.

@sp 1
@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

@sp 1
@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.

@sp 1
@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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a consequence of the rest of this License.

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@end enumerate

@sp 1
@center END OF TERMS AND CONDITIONS
@sp 1
@page
@center 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.

@format
@t{
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <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
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 General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
}
@end format

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:

@format
@t{
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
}
@end format

That's all there is to it!

@c @bye

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Version 2.1, February 1999

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

Preamble

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.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits
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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
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

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

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

3. You may opt to apply the terms of the ordinary
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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
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creates an executable that is a derivative of the Library (because it
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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
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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.
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whether or not they are linked directly with the Library itself.

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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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<one line to give the program's name and a brief idea of what it does.>
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at assemblers) written by James Hacker.

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

That's all there is to it!
#!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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<signature of Ty Coon>, 1 April 1989
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1.269 libxml2 2.9.10

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1.271 nmap 7.40

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  ethernet frames. A modified version is distributed with Nmap in the
  libdnet-stripped subdirectory. A summary of Nmap-local modifications
  is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/

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o liblua: Lua programming language. Lua is the implementation language
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--without-liblua configuration directive.
http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection
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o LIBLINEAR. Used for IPv6 OS classifiction.
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o Various X.org libraries. These were built using MacPorts.
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Written
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@enumerate a
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@page
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modification follow.

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Program (independent of having been
 made by running the Program).
Whether that is true depends on what the Program does.

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stating
 that you changed the files and the date of any change.

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these conditions, and telling the user how to view a copy of this
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@end enumerate

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customarily used for software interchange; or,

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@end enumerate

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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@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}

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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
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commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

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

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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Version 2.1, February 1999

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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
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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.

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 "work that uses the
library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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 If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) 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
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d) If distribution of the work is made by offering access to copy
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specified materials from the same place.

e) Verify that the user has already received a copy of these
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1.282 libunwind 1.2-rc1

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1.288 netkit-tftp 5.2

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1.289 cracklib 2.9.5

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[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
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> 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
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> > > 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

1.290 beecrypt 4.2.1

1.290.1 Available under license :

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Version 2, June 1991

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

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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
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That's all there is to it!
I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.

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- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-
 precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
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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".
- HP/Compaq, for their testdrive program, which gave me the opportunity to
 test and BeeCrypt on many new
 platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information,
reported bugs, provided feedback, or works on including BeeCrypt in any
other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll
rectify the situation as quickly as possible.

1.291 lm-sensors 3.4.0

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

@c End:

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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.

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To ``modify'' a work means to copy from or adapt all or part of the work
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on the Program.

To ``propagate'' a work means to do anything with it that, without
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interaction with a user
through a computer network, with no transfer of a copy, is not conveying.

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language, one that
is widely used among developers working in that language.

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

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However,

it does not include the work's
System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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You may convey a work based on the Program, or the modifications to
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The work must carry prominent notices stating that you modified it,
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requirement modifies the requirement in section 4 to ``keep intact all
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Convey the object code in, or embodied in, a physical product
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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
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@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

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@end enumerate

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deemed a mode
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1.295 dhcp 4.4.1

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* configure.ac, Makefile.am: The original versions were derived from the
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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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1.296 bridgeutils 1.6

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1.298 ncurses 6.2

1.298.1 Available under license :

Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

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-- vile: txtmode file-encoding=utf-8
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-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.299 pango 1.6.0

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1.305 zlib 0.95

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 '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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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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-- Ron

Preamble
========

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1.314 libxi 1.7

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1.316 gtk 2.24.10

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1.317 libxext 1.3.1

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1.318 libuv 1.30.1

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<ORGANIZATION> = Michael Bostock
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Website: http://datajs.codeplex.com/
License: MIT License
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Component: Function.prototype.bind
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Component: node-lru-cache 2.7.3 - A cache object that deletes the least-recently-used items.
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Component: Object assign Method
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Component: Sinon.JS 1.14.1
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Component: Sinon.JS 4.4.6
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Component: String startsWith Method 0.2.0
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Website: https://github.com/mathiasbynens/String.prototype.startsWith
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Component: String endsWith Method 0.2.0
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Component: unorm 1.3.3
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# always starting with `./').
#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
```

src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/ftrandom/ftrandom.c
#
#
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* ==
*/

Found in path(s):
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/gcm128.c
No license file was found, but licenses were detected in source scan.

/*.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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```

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" * ====================================================================\n",
"
 *\n",
" * This product includes cryptographic software written by Eric Young\n",
```

```
" * (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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* ==
*
* This product includes cryptographic software written by Eric Young
* (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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```
#!/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
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-parisc.pl
* /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
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/s390x-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-armv8.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-x86.pl
*
 /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
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-armv4.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-ppc.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-x86.pl

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-mips.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/parisc-mont.pl
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 /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-c64x.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-s390x.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-ia64.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86_64-mont5.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-s390x.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-s390x.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86-gf2m.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/s390x-gf2m.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-c64x.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-alpha.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-mips.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/aes/asm/aes-parisc.pl
* /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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# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# 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
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/asn1/asn1t.h
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*
 /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
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#! /usr/bin/env perl
```

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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;
```

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*
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#!/usr/bin/env perl
#
==
Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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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/bn/bn_sqr.c
* /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
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rand/rand.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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# 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;
```

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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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*
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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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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips_err.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cmac/cmac.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/.
# ====================================================================
#
# 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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1.330 libffi 3.3

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1.333 libcipmi 1.0

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1.334 json-c 1.7.10

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The End

1.342 sg3-utils 1.37-12.el7

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1.343 coreutils 8.32

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1.344 websocketpp 0.8.1

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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L. Peter Deutsch
ghost@aladdin.com

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1.345 sed 4.8

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We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into

another language. (Hereinafter, translation is
included without limitation in the term "modification".)

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

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

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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.

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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.

3. You may opt to apply the terms of the ordinary
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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

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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.

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

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

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

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
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facilities. This must be distributed under the terms of the Sections above.

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Version 3, 29 June 2007

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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.

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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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a 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
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e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
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charge under subsection 6d.

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

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tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
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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
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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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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
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1.354 openssl 0.9.8w

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1.355 python 2.6.32

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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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1.359 libnl3 3.4.0

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To do so, attach the following notices to the program. It is safest
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

1.361 libnl3 3.5.0

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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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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 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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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.

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1.364 rng-tools 6.5

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Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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

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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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1.383 tftp-hpa 0.48

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* /tftp-ha-0-48-tar/src/tftpmain.c
* /tftp-ha-0-48-tar/src/tftpsubs.c
* /tftp-ha-0-48-tar/src/tftp.c
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*
* @(#)tftpsubs.h 8.1 (Berkeley) 6/6/93
*/

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* @(#)extern.h 8.1 (Berkeley) 6/6/93
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1.384 tftp-hpa 0.49

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* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.h
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Found in path(s):
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* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.h
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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/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/common/tftpsubs.c
*
 /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.c
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* -- */

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* /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

1.385 libestr 0.1.9-2.el7

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Version 2.1, February 1999

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1.386 libasyncns 0.8

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

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

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

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

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a) Accompany
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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
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user can modify the Library and then relink to produce a modified
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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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properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at least
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For an executable, the required form of the "work that uses the
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distributed (in either source or binary form) with the major
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

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

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1.388 traceroute 2.1.0

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1.390 smartmontools 7.0

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1.393 tftp-hpa 1.9.2

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

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* ---------------------------------------------------------------------- */
```

Found in path(s):
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.h
No license file was found, but licenses were detected in source scan.

```
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* ---------------------------------------------------------------------- */
```

Found in path(s):
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/remap.h
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/misc.c
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/remap.c
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```

Found in path(s):
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/config.h

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.\"
.\"------------------------------------------------------------------------ */
```

Found in path(s):
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

```
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.\"
.\"-- */

Found in path(s):
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/tftp.1.in
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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

1.394 cairo 1.14.8-2.el7

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1.406 openssh 8.3-p1

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1)

```
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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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* @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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1.407 multipart-parser-c NA

1.407.1 Available under license :

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

/* Based on node-formidable by Felix Geisendörfer
* Igor Afonov - afonov@gmail.com - 2012
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*/

Found in path(s):
* /multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c
* /multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.h

1.408 gettext 0.21

1.408.1 Available under license :

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"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
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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
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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.

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

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

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

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

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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 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
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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.
^L
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the Library and of the other library facilities is otherwise
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1. Source Code.

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

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

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

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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

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

in one of these ways:

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

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

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

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

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source

as a System Library, need not be
included in conveying the object code work.

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tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
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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
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keys, or other information required to install
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by the Installation Information. But this requirement does not apply
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protocols for communication across the network.

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1.409 libarchive 3.4.3

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1.410 libyaml 0.2.5

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1.411 tftp-hpa 5.2

1.411.1 Available under license :

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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

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

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server

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

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

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

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

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

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

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
```

%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

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

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

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

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

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

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000

Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

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

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

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

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

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

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

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>

- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

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

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

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

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

Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec
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.\"
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* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
*
/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c
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* ---------------------------------------------------------------------- */
```

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* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/extern.h
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h
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* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
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* /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
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* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c
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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

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1.412 readline 8.1

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license

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certain libraries in order to permit linking those libraries into
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When a program is linked with a library, whether statically or using a
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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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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
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 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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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
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``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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means either the Library or any derivative work under copyright law:
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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
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definition files, plus the scripts used to control compilation and
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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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These requirements apply
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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.

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directing the user to the copy of this License. Also, you must do one of these things:

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

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on
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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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@sp 1
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting
the free library to free
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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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.

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1.415 psmisc 23.1

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1.417 sg3-utils 1.37-12.el7

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1.418 mini-xml 2.6

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1.419 libfastjson 0.99.8

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1.422 libsepol 2.6

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

That's all there is to it!

1.423 icu 68

1.423.1 Available under license :

```
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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
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```

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1. ICU License - ICU 1.8.1 to ICU
57.1

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1.425 perl 5.32.0

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1.426 nss 3.21

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

#1: 32 7648 0x83
#2: 7680 8704 0xa5
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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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1.434 curl 7.43.0

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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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1.435 protobuf 3.9.2

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
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* HPUX support.
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* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
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* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only
once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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1.436 ebtables 2.0.11

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1.437 acl 2.2.53

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

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

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1.438 open-ldap 2.4.57

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1.439 libusb 1.0.24

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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.

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1.440 kmod 28

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William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

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////

[#mpl]
MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by
including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple`
by including `<boost/mp11/mpl_tuple.hpp>`. This may be required
because some libraries, such as Boost.Fusion, contain their own MPL
support for `std::tuple`, which conflicts with Mp11's one.
<!DOCTYPE html>
<html>
 <head></head>
 <body>
  <h3>
   Copyright Test
  </h3>
  <p class="copyright">
   1963, 1964, 1965 Jane Doe

```
  </p>
  <p class="copyright">
   2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
   1977, 1985 Someone else
  </p>
 </body>
</html>
```

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<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
  <copyright>
   <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
  </copyright>
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   <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
  <copyright>
   <year>1977</year> <year>1985</year> <holder>Someone else</holder>
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 </articleinfo>
</article>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

1.450 curl 7.75.0

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1.451 dosfs-tools 4.2

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1.452 tcp-wrappers 7.6-r10

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```

1.453 gawk 4.0.2

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Version 3, 29 June 2007

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1.457 libcap 2.48

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1.459 rng-tools 6.11

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1.462 gawk 5.1.0

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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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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

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

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<signature of Ty Coon>, 1 April 1990
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1.466 glibc 2.33

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@page
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1.473 findutils 4.8.0

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1.479 elfutils 0.183

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1.480 netkit-telnet 0.17

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1.481 libxml 2.9.7

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1.482 pciutils 3.6.2-r0

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1.484 tdb 1.42.9

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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.

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
Bos, Sander
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
Cheloha, Scott
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
Jover, Guillem
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
Mallayya, Sangamesh
Manner, Rbert
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
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
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.
Spradling, Michael
Stier, Matthew
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Stritzky, Tilo
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Tarrall, Robert
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Toft, Martin
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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 as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
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Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
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Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
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Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Florentina Muat
Nurmi, Lauri
Nikoli, Miroslav
Nylander, Daniel
Pan, Yi-Jyun
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
erbnescu, Daniel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo: Stillman, Mark

1.488 dmidecode 2.16

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1.489 sqlite 3.35.0

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*
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*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/md5.c
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2001 September 15
#

```
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#
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#
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this file is testing built-in functions.
#
# $Id: func.test,v 1.16.2.2 2004/07/18 21:14:05 drh Exp $

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
 execsql {CREATE TABLE tbl1(t1 text)}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
 execsql {
    CREATE TABLE t2(a);

   INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
 }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
 set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
```

```
 set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
 execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
         ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
 execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
}
 {fr is pr so th}
do_test func-2.1 {
 execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
 execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
 execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
 execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
 execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
 execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
 execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
 execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
 execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}
```

```
# Only do the following tests if TCL has UTF-8 capabilities and
# the
 UTF-8 encoding is turned on in the SQLite library.
#
if {[sqlite -encoding]=="UTF-8" && "\u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
 execsql {DELETE FROM tbl1}
 foreach word "contains UTF-8 characters hi\u1234ho" {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
 execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
 execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
 execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
 execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
 execsql {SELECT
 substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
 execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
 execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
do_test func-3.99 {
 execsql {DELETE FROM tbl1}
```

```
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End [sqlite -encoding]==UTF-8 and \u1234!=u1234

# Test the abs() and round() functions.
#
do_test func-4.1 {
 execsql {
   CREATE TABLE t1(a,b,c);
   INSERT INTO t1 VALUES(1,2,3);
   INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
   INSERT INTO t1 VALUES(3,-2,-5);
 }
 catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
do_test func-4.2 {
 catchsql {SELECT abs() FROM t1}
} {1 {wrong number
 of arguments to function abs()}}
do_test func-4.3 {
 catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
 catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 12345.67890 5}}
do_test func-4.4.1 {
 execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
 execsql {SELECT abs(t1) FROM tbl1}
} {this program is free software}

do_test func-4.5 {
 catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
 catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {-2.00 1.23 2.00}}
do_test func-4.7 {
 catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2 1 -2}}
do_test func-4.8 {
 catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3 -12346 -5}}
```

```
do_test func-4.9 {
 catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.000}}
do_test func-4.10 {
 catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.000y}}
do_test func-4.11
 {
 catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
 execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.00 nil 345.00 nil 67890.00}
do_test func-4.13 {
 execsql {SELECT round(t1,2) FROM tbl1}
} {0.00 0.00 0.00 0.00 0.00}

# Test the upper() and lower() functions
#
do_test func-5.1 {
 execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
 execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
 execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
do_test func-5.4 {
 catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
do_test func-5.5 {
 catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
 execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test
 func-6.2 {
 execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
 execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
```

```
 execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
 execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}


# Test the last_insert_rowid() function
#
do_test func-7.1 {
 execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
do_test func-8.1 {
 execsql {
   SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
 }
} {68236 3 22745.33 1 67890 5}
do_test func-8.2 {
 execsql {
   SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
do_test func-8.3 {
 execsql {
   CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
   SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
 }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
do_test
 func-8.4 {
 execsql {
   SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
 execsql {
   SELECT random() is not null;
 }
} {1}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
```

```
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
db close
set ::DB [sqlite db test.db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
 catchsql {
   SELECT testfunc(NULL,NULL);
 }
} {1 {first argument to test function may not be NULL}}
do_test func-10.2 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234
   );
 }
} {1234}
do_test func-10.3 {
 execsql {
   SELECT
 testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL
   );
 }
} {{}}
do_test func-10.4 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234
   );
 }
} {1.234}
do_test func-10.5 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
```

```
   'string', NULL,
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'double', 1.234
  );
 }
} {1.234}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
 execsql {

  SELECT sqlite_version(*);
 }
} [sqlite -version]

finish_test
```

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/test/func.test
No license file was found, but licenses were detected in source scan.

/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/art/SQLite.eps: binary file matches

Found in path(s):
* /bin/grep
No license file was found, but licenses were detected in source scan.

```
%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %{name}
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %{version}
Release: %{release}
Source: %{name}-%{version}.tar.gz
Group: System/Libraries
URL: http://www.hwaci.com/sw/sqlite/
License: Public Domain
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a C library that implements an embeddable SQL database engine.
Programs that link with the SQLite library can have SQL database access
without running a separate RDBMS process. The distribution comes with a
standalone command-line access program (sqlite) that can be used to
administer an SQLite database and which serves as an example of how to
```

use the SQLite library.

%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description
 -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed
to develop programs that use the sqlite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}

make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/spec.template
No license file was found, but licenses were detected in source scan.

```
/*
** The "printf" code that follows dates from the 1980's.  It is in
** the public domain.  The original comments are included here for
** completeness.  They are very out-of-date but might be useful as
** an historical reference.  Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
**************************************************************************
**
** The following modules is an enhanced replacement for the "printf" subroutines
** found in the standard C library.  The following enhancements are
** supported:
**
**      +  Additional functions.  The standard set of "printf" functions
**         includes printf, fprintf, sprintf, vprintf, vfprintf, and
**         vsprintf.  This module adds the following:
**
**           *  snprintf -- Works like sprintf, but has an extra argument
**                          which is the size of the buffer written
 to.
**
**           *  mprintf --  Similar to sprintf.  Writes output to memory
**                          obtained from malloc.
**
**           *  xprintf --  Calls a function to dispose of output.
**
**           *  nprintf --  No output, but returns the number of characters
**                          that would have been output by printf.
**
**           *  A v- version (ex: vsnprintf) of every function is also
**              supplied.
**
**      +  A few extensions to the formatting notation are supported:
**
**           *  The "=" flag (similar to "-") causes the output to be
**              be centered in the appropriately sized field.
**
**           *  The %b field outputs an integer in binary notation.
**
**           *  The %c field now accepts a precision.  The character output
**              is repeated by the number of times the precision specifies.
**
**           *  The %' field works like %c, but takes as its character the
**              next character of the
 format string, instead of the next
**              argument.  For example,  printf("%.78'-")  prints 78 minus
**              signs, the same as  printf("%.78c",'-').
**
```

```
**     +  When compiled using GCC on a SPARC, this version of printf is
**        faster than the library printf for SUN OS 4.1.
**
**     +  All functions are fully reentrant.
**
*/
```

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/printf.c
No license file was found, but licenses were detected in source scan.

public domain.

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/changes.tcl
No license file was found, but licenses were detected in source scan.

<p>Yes. SQLite is in the public domain. No claim of ownership is made

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/faq.tcl
No license file was found, but licenses were detected in source scan.

```
/* The IncrKey opcode is only applied to keys generated by
 ** MakeKey or MakeIdxKey and the results of those operands
 ** are always dynamic strings or zShort[] strings.  So we
 ** are always free to modify the string in place.
 */
```

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/vdbe.c
No license file was found, but licenses were detected in source scan.

Sources are in the public domain.

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/index.tcl

1.490 cjson 3.6-r0

1.490.1 Available under license :

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1.492 libevdev 220

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

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

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

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

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

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

This 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 Library General
Public License instead of this License.

1.494 libnettle6 3.7.2

1.494.1 Available under license :

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Version 2, June 1991

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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

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does not normally print such an announcement, your work based on
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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
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allowed only for noncommercial distribution

and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

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convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

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

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Version 3, 29 June 2007

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

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An interactive user interface displays "Appropriate Legal Notices"

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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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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
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1.495 open-ldap 2.4.58

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<one line to give the program's name and a brief idea of what it does.>
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1.499 fdisk 2.36.2

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
7zXZF!t/5]oK3&K6Y^
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g\BI'W|j>jf_{JPp]oMd3rfQ+}_3<%<6jx{)11D5eg;NtD+~R]w[xiue@F#Em0hu;,,x{R7V2!Vq~AG{EX -
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;*l;._>KfBqxY(F|0.Ve%S61opMG`'\YfRXvY[R+t[BS=)d ;*l;._>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ

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1.502 python-pip 19.2.3

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Python was created in the early 1990s by Guido van Rossum at Stichting

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
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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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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
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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
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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
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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
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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1.504 uclibc 1.3.3-040609

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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)
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 by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
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X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
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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
Licensed under the LGPL v2.1, see the file COPYING.LIB in this tarball.

1.505 runc 1.0.0+rc5+git0+6a2c155968

1.505.1 Available under license :

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1.508 busybox 1.33.1

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1.509 binutils 2.36.1

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input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
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backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration
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converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a

coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many
small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost;
we aren't
intentionally leaving anyone out.

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

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
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other libraries whose authors decide to use it. You can use it for
your libraries, too.

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if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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

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

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

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

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

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

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

treats it as such.

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term "modification".)

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

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

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

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

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

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or

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

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

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

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

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

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

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

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

Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

the executable.

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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

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

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

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

Some devices are designed to deny users access to install or run

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the

public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for

the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

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No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

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

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

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

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

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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,
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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.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to
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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.

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

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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.)

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

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

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

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It may happen that this requirement contradicts the license

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

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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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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!
uganda.txt For Vim version 8.2. Last change: 2020 Jan 08

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*
SUMMARY

iccf *ICCF*

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

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

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

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

=== begin of license ===

VIM LICENSE

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

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

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

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL.

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

IV) It is not allowed to remove this license from the distribution of the Vim
    sources, parts of it or from a modified version. You may use this
    license for previous Vim releases instead of the license that they came
    with, at your option.

=== end of license ===

Note:

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

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

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

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

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

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

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

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

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

religion.

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

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

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

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

donate

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

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

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than

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5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

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

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

The address of the centre is:
Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

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

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

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

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

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

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
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:noet:ft=help:norl:
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1.513 tar 1.34

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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])
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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

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> 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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1.516 uip 1.0

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*
* $Id: httpd-cgi.c,v 1.2 2006/06/11 21:46:37 adam Exp $
*
*/

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* /uip-master-zip/uip-master/doc/html/a00187.html
* /uip-master-zip/uip-master/doc/html/a00199.html
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* Author: Adam Dunkels <adam@sics.se>
*
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* Author: Adam Dunkels <adam@sics.se>

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* Author: Adam Dunkels <adam@sics.se>
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* Author: Adam Dunkels <adam@sics.se>
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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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* @(#)$Id: dhcpc.c,v 1.2 2006/06/11 21:46:37 adam Exp $
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* Author: Adam Dunkels <adam@sics.se>
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1.518 e2fsprogs 1.46.1

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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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
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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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     ** library. This does NOT imply that all of Samba is released
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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!
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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1.519 json-c 0.99.9

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1.520 rsyslog 8.2102.0

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 *
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 *
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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
```

1.522 containerd v1.0.2+gitcfd04396dc68220d1cecbe686a6cc3

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.525 mtd-utils 2.1.2

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1.527 gnutls 3.7.2

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1.533 python-pip 21.2.4

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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 the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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2.1.2	2.1.1	2002	PSF	yes
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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
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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
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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1.537 tcl 8.6.11

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1.538 diffutils 2.0

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1.549 x-sys 0.0.0-20201119102817-f84b799fce68

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1.550 protobuf 1.23.0

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1.551 sys-mountinfo 0.4.0

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1.552 containerd-console 1.0.1

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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

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In May 2000, Guido and the Python core development team moved to
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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1.562 libsolv 0.7.17

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1.563 glib 2.66.7

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Version 3, 29 June 2007

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1.572 libvirt 6.3.0

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1.573 dtc 1.6.0

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1.574 qemu 5.2.0

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```
project('bar', 'c', license: 'Apache')

executable('bar', 'bar.c')

license = meson.project_license()[0]
if license != 'Apache'
  error('The license should be Apache, but it is: ' + license)
endif
bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
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```

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```
TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
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 */
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John R. Hauser
2018 January 20

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Key Dates
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* August 3, 2017

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Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

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==========

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2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include
your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions
for sample patch email ===
```

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
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contribution is
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==========
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==========

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1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under"
message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
not documented, then submit the code on development email list
for the project.

5. It is preferred that contributions are submitted using the same
   copyright license as the base project. When that is not possible,
   then contributions using the following licenses can be accepted:
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   accepted.

   Contributions using other licenses might be accepted, but further
   review will be required.

==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:
TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message

is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change.
Each line should be less than ~70 characters.
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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated
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Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
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References:
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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message
explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================
```

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

```
From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached
```

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is

the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
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2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
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```
==================================================
= Change Description / Commit Message / Patch Email =
==================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
```

* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change. Each line should be less than ~70 characters.
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John R. Hauser
2018 January 20

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{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op,
 "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL,
 NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_get_file,
 "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
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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_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL,
 NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
 "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
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NULL, NULL },
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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
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Note that it is possible for a library to be covered by the ordinary
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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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John R. Hauser
2018 January 20

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 * by Mark Gates <mgates@nlanr.net>
 * and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
 * ----------------------------------------------------------------
 * input and output numbers, converting with kilo, mega, giga
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1.578 keyutils 1.5.8

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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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The precise terms and conditions for copying, distribution and

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of
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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.

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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.

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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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1.581 libpwquality 1.4.4

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```
/*
* pw.c
*
* AAA password routines, adopted from IOX
*
* January 2005, Naiming Shen
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
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*
*-----------------------------------------------------------------
* pw.c -- password encryption/decryption routines
*
* May 08 2000, Mark Eklund
*
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*-----------------------------------------------------------------
*/
```

Found in path(s):
* /pw-tar/pw/src/pw.c
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```
/*
* pw_defs.h
*
* Password defines.
*
* July 2005, Craig MacFarlane
*
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*
```

```
*/
```

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```
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*
* Password routines, adopted from IOX
*
* May 2000 Mark Eklund
* July 2005, Craig MacFarlane
*
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*/
/*
* edt: * pw_type_t
*      Possible formats of saving the password in SysDB.
*
* item: PW_TYPE_CLEAR
*       The password in the clear, visible for anybody.
*
* item: PW_TYPE_1WAY
*       The password encrypted to an MD5 digest.  This is not reversible.
*
* item: PW_TYPE_1WAY_2
*       The password encrypted to an sha256 digest.  This is not reversible.
*
* item: PW_TYPE_2WAY
*       The Cisco type 7 password encryption.  This is reversible
*  by both Cisco products and several public domain programs.
*/
```

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* /pw-tar/pw/include/pw.h
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```
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```

Found in path(s):
* /pw-tar/pw/Makefile.binos
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```
/*
* pw_const.tph
*
```

```
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*/

@DIRECTIVES{
  auto_import_stg = false;
  skip_auto_tdl_include = true;
}@

@IMPORT_STG{
  import "constant_gen.stg";
}@

@TDL{
  import "pw_const.tdl"
}@

@CODE{

#ifndef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__

  $constant_generate()$

#endif /* __TDLC_GEN_PW_CONST_H__ */

}@
```

Found in path(s):
* /pw-tar/pw/include/pw_const.tph

1.582 kexec-tools 2.0.7

1.582.1 Available under license :

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1.583 mtd-utils 0.0.0

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

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1.587 libedit 20080614-2.11

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1.588 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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* /tinyxml-2-6-2-1-tar-gz/tinyxml/docs/tinyxml_8h_source.html

1.589 libxml2 2.9.13

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1.590 python-setuptools 8.8.0

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

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1.591 pyyaml 5.4.1

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1.592 apr 1.0.0

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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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1.601 rpm 4.16.1

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 Makefile.am
 NEWS
 README
 src/Makefile.am
 src/do_ypcall.c
 src/internal.h
 src/libnsl.map
 src/nisplus/nis_error.c
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Files: src/libc-lock.h
src/nisplus/nis_add.c
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src/nisplus/nis_lookup.c
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src/nisplus/nis_xdr.h
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src/rpcsvc/ypclnt.h
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src/rpcsvc/nis_callback.x
src/rpcsvc/nis_object.x
src/rpcsvc/nis_tags.h
src/rpcsvc/nis.h
src/rpcsvc/nis.x
src/rpcsvc/yp.h
src/rpcsvc/yp.x
src/rpcsvc/yp_prot.h
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 m4/host-cpu-c-abi.m4
 m4/iconv.m4
 m4/intlmacosx.m4
 m4/lib-ld.m4
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A: Yes, that's exactly the point of open source. Works derived from the
plugins will have to use the GPL license, but you can choose to use LGPL for
them as well.

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

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

Q: Who is permitted to create non-free plugins for syslog-ng?
Is it just
BalaBit (the current copyright holder as of the initial 3.2 release)?

A: No, everyone including BalaBit.

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

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

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

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

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

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a) Accompany
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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

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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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1.607 linux_kernel_zlib 3.4.30

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1.608 lvm2 2.03.11

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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

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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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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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1.610 talloc 2.3.3

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1.611 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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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.612 linux-kernel 5.10.110

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*

* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*   as needed. This means that data must always be copied to create
*   the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*   Fix is simple: make large buffers large enough to hold entire
*   SDU, and leave <small_buffer_data> bytes empty at the start. Then
*   copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*   buffers. This is done by 2 things:
*   1) skb->destructor / skb->atm.recycle_buffer
*   combined, allow nicstar_free_rx_skb to be called to
*   recycle large data buffers
*   2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*   details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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1.613 libatomic 10.3.0

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libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
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ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language Compiler package Library package Documentation

Ada
  gnat-10 libgnat-10 gnat-10-doc
BRIG gccbrig-10 libhsail-rt0
C gcc-10 gcc-10-doc
C++ g++-10 libstdc++6 libstdc++6-10-doc
D gdc-10
Fortran 95 gfortran-10 libgfortran5 gfortran-10-doc

Go gccgo-10 libgo0
Objective C gobjc-10 libobjc4
Objective C++ gobjc++-10
Modula-2 gm2-10 libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-10-dbg	libstdc++6-10-pic
D	libphobos-10-dev			

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-10-base Base files common to all compilers
gcc-10-soft-float Software floating point (ARM only)
gcc-10-source The sources with patches

Ada:
libgnat-util10-dev, libgnat-util10 GNAT version library

C:
cpp-10, cpp-10-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

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The Phobos standard runtime library:
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1.617 glibc 2.1.1

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1.619 glib 2.3

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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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1.620 tk 8.22

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1.623 fdisk 2.16.840

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Public License instead of this License.
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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```

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1.625 libdevmapper 0.0.0

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```
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*
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```
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*/

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```
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* /cryptsetup-master-3-zip/cryptsetup-master/dm/misc/dm-log-userspace.h
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```
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* NSS crypto backend implementation
*
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```
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* loopback block device utilities
*
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```
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* veritysetup - setup cryptographic volumes for dm-verity
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```

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```
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* cryptsetup - setup cryptographic volumes for dm-crypt
*
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* /cryptsetup-master-3-zip/cryptsetup-master/utils_tools.c
* /cryptsetup-master-3-zip/cryptsetup-master/cryptsetup.c
* /cryptsetup-master-3-zip/cryptsetup-master/cryptsetup.h
No license file was found, but licenses were detected in source scan.

/*
* devname - search for device name
*
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* /cryptsetup-master-3-zip/cryptsetup-master/lib/utils_devpath.c
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* FIPS mode utilities
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* /cryptsetup-master-3-zip/cryptsetup-master/lib/utils_fips.c
* /cryptsetup-master-3-zip/cryptsetup-master/lib/utils_fips.h
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* /cryptsetup-master-3-zip/cryptsetup-master/dm/misc/lvm-globals.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/misc/dmlib.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/misc/lvm-types.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/misc/lvm-logging.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/misc/log.h
*
 /cryptsetup-master-3-zip/cryptsetup-master/dm/misc/lib.h
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* dm-verity volume handling
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/verity/verity_hash.c
* /cryptsetup-master-3-zip/cryptsetup-master/lib/verity/verity.h
*
 /cryptsetup-master-3-zip/cryptsetup-master/lib/verity/verity.c
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/*
* Definitions used by the uuidd daemon
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Found in path(s):
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* TCRYPT (TrueCrypt-compatible) header defitinion
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/tcrypt/tcrypt.h
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/*
* utils - miscellaneous device utilities for cryptsetup
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/utils.c
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/*
* unparse.c -- convert a UUID to string
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/uuid/unparse.c
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* LUKS - Linux Unified Key Setup
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/luks1/luks.h
*
 /cryptsetup-master-3-zip/cryptsetup-master/lib/luks1/keyencryption.c
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/*
* libcryptsetup - cryptsetup library internal
*
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/dm/mm/pool-fast.c
* /cryptsetup-master-3-zip/cryptsetup-master/dm/libdevmapper.h
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```
/*
* libdevmapper - device-mapper backend for cryptsetup
*
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* /cryptsetup-master-3-zip/cryptsetup-master/lib/utils_dm.h
* /cryptsetup-master-3-zip/cryptsetup-master/lib/libdevmapper.c
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* cryptsetup volume key implementation
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* utils_wipe - wipe a device
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/*
* uuid_time.c --- Interpret the time field from a uuid. This program
* violates the UUID abstraction barrier by reaching into the guts
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* /cryptsetup-master-3-zip/cryptsetup-master/dm/libdm-iface.c
* /cryptsetup-master-3-zip/cryptsetup-master/dm/datastruct/hash.c
* /cryptsetup-master-3-zip/cryptsetup-master/dm/libdm-common.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/regex/matcher.c
*
 /cryptsetup-master-3-zip/cryptsetup-master/dm/ioctl/libdm-common.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/ioctl/libdm-iface.c
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* cryptsetup plain device helper functions
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* /cryptsetup-master-3-zip/cryptsetup-master/dm/regex/parse_rx.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/regex/ttree.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/regex/parse_rx.c
* /cryptsetup-master-3-zip/cryptsetup-master/dm/regex/ttree.c
*
 /cryptsetup-master-3-zip/cryptsetup-master/dm/mm/dbg_malloc.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/mm/dbg_malloc.c
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/*
* PBKDF performance check
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/crypto_backend/pbkdf_check.c
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/*
* crypto backend implementation
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* /cryptsetup-master-3-zip/cryptsetup-master/lib/crypto_backend/crypto_backend.h
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/*
* Nettle crypto backend implementation
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/crypto_backend/crypto_nettle.c
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/*
* utils_crypt - cipher utilities for cryptsetup
*
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/utils_crypt.c
* /cryptsetup-master-3-zip/cryptsetup-master/lib/utils_crypt.h
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/*
* libcryptsetup - cryptsetup library
*
* Copyright (C) 2004, Christophe Saout <christophe@saout.de>
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* /cryptsetup-master-3-zip/cryptsetup-master/lib/setup.c
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/*
* GCRYPT crypto backend implementation
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/crypto_backend/crypto_gcrypt.c
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/dm/misc/kdev_t.h
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```
/*
* Linux kernel userspace API crypto backend implementation (skcipher)
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```

Found in path(s):

```
*
 /cryptsetup-master-3-zip/cryptsetup-master/lib/crypto_backend/crypto_cipher_kernel.c
```

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```
/*
* device backend utilities
*
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/utils_device.c
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/*
* isnull.c --- Check whether or not the UUID is null
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/*
* Internal routine for packing UUIDs

```
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* Internal routine for unpacking UUID
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* LUKS - Linux Unified Key Setup
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*/

Found
in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/luks1/keymanage.c
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* cryptsetup kernel RNG access functions
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/random.c
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* copy.c --- copy UUIDs
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*/

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* /cryptsetup-master-3-zip/cryptsetup-master/dm/datastruct/list.c
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/*
* Implementation of Password-Based Cryptography as per PKCS#5
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```

Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/lib/crypto_backend/pbkdf2_generic.c
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```
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* /cryptsetup-master-3-zip/cryptsetup-master/lib/utils_benchmark.c
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```
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* AFsplitter - Anti forensic information splitter
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* /cryptsetup-master-3-zip/cryptsetup-master/lib/luks1/af.h
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*
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/*
* compare.c --- compare whether or not two UUIDs are the same
*
* Returns 0 if the two UUIDs are different, and 1 if they are the same.
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Found in path(s):
* /cryptsetup-master-3-zip/cryptsetup-master/dm/ioctl/libdm-compat.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/misc/libdm-targets.h
* /cryptsetup-master-3-zip/cryptsetup-master/dm/ioctl/libdm-targets.h
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* Linux kernel userspace API crypto backend implementation
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```
/*
* cryptsetup-reencrypt - crypt utility for offline re-encryption
*
```

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1.626 libgpg-error 0.0

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1.632 libdrm 2.4.60-3.el7

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/* mga_drm.h -- Public header for the Matrox g200/g400 driver -*- linux-c -*-
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/libkms/dumb.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/libkms/nouveau.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/libkms/vmwgfx.c
*
 /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/libkms/libkms.h
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/libkms/api.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/tests/kmstest/main.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/libkms/intel.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/libkms/radeon.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/libkms/linux.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/libkms/internal.h
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jRemOesn/libdrm-2.4.60/libdrm.h
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-
jRemOesn/libdrm-2.4.60/tests/tegra/openclose.c
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/* exynos_drm.h
*
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* Authors:
* Inki Dae <inki.dae@samsung.com>
* Joonyoung Shim <jy0922.shim@samsung.com>
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/* radeon_drm.h -- Public header for the radeon driver -*- linux-c -*-
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/man/drmAvailable.xml
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/man/drm-memory.xml
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/man/drmModeGetResources.xml
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/man/drmHandleEvent.xml
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/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation
* Created: Mon Apr 19 08:28:13 1999 by faith@precisioninsight.com
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*

```
* DESCRIPTION
*
* This file contains a simple, straightforward implementation of the Park
* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
* multiplicative linear congruential generator (MLCG) with a period of
* 2^31-1.
*
* This implementation is intended to provide a reliable, portable PRNG
* that is suitable for testing a hash table implementation and for
* implementing skip lists.
*
* FUTURE ENHANCEMENTS
*
* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated.
  [Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.
*
* If PRNGs are used for simulation, the period of the current
* implementation may be too short.  [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M.  [LE90 and Sch92] also provide information on
* long-period PRNGs.
*
* REFERENCES
*
* [Knuth81] Donald E. Knuth. The Art of Computer Programming.  Volume 2:
* Seminumerical Algorithms.  Reading, Massachusetts: Addison-Wesley, 1981.
*
* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
* Generators".  CACM 31(6), June 1988, pp. 742-774.
*
* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10,
* October 1990, pp. 85-97.
*
* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
* Good Ones are Hard to Find". CACM 31(10), October 1988, pp. 1192-1201.
*
* [Sch92] Bruce Schneier. "Pseudo-Ransom Sequence
 Generator for 32-Bit
* CPUs".  Dr. Dobb's Journal 17(2), February 1992, pp. 34, 37-38, 40.
*
* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer.  In
* "Technical Correspondence: Remarks on Choosing and Implementing Random
* Number Generators". CACM 36(7), July 1993, pp. 105-110.
*
*/
```

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*    Rob Clark <rob@ti.com>
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/omap/omap_drmif.h
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/omap/omap_drm.h
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/tegra/private.h
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AC_PREREQ([2.63])
AC_INIT([libdrm],
    [2.4.60],
    [https://bugs.freedesktop.org/enter_bug.cgi?product=DRI],
    [libdrm])

AC_CONFIG_HEADERS([config.h])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CONFIG_MACRO_DIR([m4])
AC_CONFIG_AUX_DIR([build-aux])

AM_INIT_AUTOMAKE([1.10 foreign dist-bzip2])

Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

```
# Check for programs
AC_PROG_CC

AC_USE_SYSTEM_EXTENSIONS
AC_SYS_LARGEFILE
AC_FUNC_ALLOCA

AC_CHECK_HEADERS([sys/mkdev.h])

# Initialize libtool
LT_PREREQ([2.2])
LT_INIT([disable-static])


PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs)
AC_SUBST(PTHREADSTUBS_CFLAGS)
AC_SUBST(PTHREADSTUBS_LIBS)

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
AC_ARG_ENABLE([udev],
        [AS_HELP_STRING([--enable-udev],
                [Enable support for using udev instead of mknod (default: disabled)])],
        [UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE(libkms,
    AS_HELP_STRING([--disable-libkms],
    [Disable KMS mm abstraction library (default: auto, enabled on supported platforms)]),
    [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE(intel,
    AS_HELP_STRING([--disable-intel],
    [Enable support for intel's KMS API (default: auto, enabled on x86)]),
    [INTEL=$enableval], [INTEL=auto])

AC_ARG_ENABLE(radeon,
    AS_HELP_STRING([--disable-radeon],
    [Enable support for radeon's KMS API (default: auto)]),
    [RADEON=$enableval], [RADEON=auto])

AC_ARG_ENABLE(nouveau,
    AS_HELP_STRING([--disable-nouveau],
    [Enable support for nouveau's KMS API (default: auto)]),
    [NOUVEAU=$enableval], [NOUVEAU=auto])

AC_ARG_ENABLE(vmwgfx,
    AS_HELP_STRING([--disable-vmwgfx],
```

```
      [Enable support for vmwgfx's KMS API
 (default: yes)]),
      [VMWGFX=$enableval], [VMWGFX=yes])

AC_ARG_ENABLE(omap-experimental-api,
      AS_HELP_STRING([--enable-omap-experimental-api],
      [Enable support for OMAP's experimental API (default: disabled)]),
      [OMAP=$enableval], [OMAP=no])

AC_ARG_ENABLE(exynos-experimental-api,
      AS_HELP_STRING([--enable-exynos-experimental-api],
      [Enable support for EXYNOS's experimental API (default: disabled)]),
      [EXYNOS=$enableval], [EXYNOS=no])

AC_ARG_ENABLE(freedreno,
      AS_HELP_STRING([--disable-freedreno],
      [Enable support for freedreno's KMS API (default: auto, enabled on arm)]),
      [FREEDRENO=$enableval], [FREEDRENO=auto])

AC_ARG_ENABLE(freedreno-kgsl,
      AS_HELP_STRING([--enable-freedreno-kgsl],
      [Enable support for freedreno's to use downstream android kernel API (default: disabled)]),
      [FREEDRENO_KGSL=$enableval], [FREEDRENO_KGSL=no])

AC_ARG_ENABLE(tegra-experimental-api,
      AS_HELP_STRING([--enable-tegra-experimental-api],

     [Enable support for Tegra's experimental API (default: disabled)]),
      [TEGRA=$enableval], [TEGRA=no])

AC_ARG_ENABLE(install-test-programs,
   AS_HELP_STRING([--enable-install-test-programs],
   [Install test programs (default: no)]),
   [INSTALL_TESTS=$enableval], [INSTALL_TESTS=no])

dnl ===========================================================================
dnl check compiler flags
AC_DEFUN([LIBDRM_CC_TRY_FLAG], [
 AC_MSG_CHECKING([whether $CC supports $1])

 libdrm_save_CFLAGS="$CFLAGS"
 CFLAGS="$CFLAGS $1"

 AC_COMPILE_IFELSE([AC_LANG_SOURCE([ ])], [libdrm_cc_flag=yes], [libdrm_cc_flag=no])
 CFLAGS="$libdrm_save_CFLAGS"

 if test "x$libdrm_cc_flag" = "xyes"; then
  ifelse([$2], , :, [$2])
```

```
 else
   ifelse([$3], , :, [$3])
 fi
 AC_MSG_RESULT([$libdrm_cc_flag])
])

dnl We use clock_gettime to check for timeouts in drmWaitVBlank

AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],
           [AC_CHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],
                    [AC_MSG_ERROR([Couldn't find clock_gettime])])])
AC_SUBST([CLOCK_LIB])

AC_CHECK_FUNCS([open_memstream], [HAVE_OPEN_MEMSTREAM=yes])

dnl Use lots of warning flags with with gcc and compatible compilers

dnl Note: if you change the following variable, the cache is automatically
dnl skipped and all flags rechecked.  So there's no need to do anything
dnl else.  If for any reason you need to force a recheck, just change
dnl MAYBE_WARN in an ignorable way (like adding whitespace)

MAYBE_WARN="-Wall -Wextra \
-Wsign-compare -Werror-implicit-function-declaration \
-Wpointer-arith -Wwrite-strings -Wstrict-prototypes \
-Wmissing-prototypes -Wmissing-declarations -Wnested-externs \
-Wpacked -Wswitch-enum -Wmissing-format-attribute \
-Wstrict-aliasing=2 -Winit-self \
-Wdeclaration-after-statement -Wold-style-definition \
-Wno-missing-field-initializers -Wno-unused-parameter \
-Wno-attributes -Wno-long-long -Winline"

# invalidate cached value if MAYBE_WARN has changed
if
 test "x$libdrm_cv_warn_maybe" != "x$MAYBE_WARN"; then
 unset libdrm_cv_warn_cflags
fi
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [
 echo
 WARN_CFLAGS=""

 # Some warning options are not supported by all versions of
 # gcc, so test all desired options against the current
 # compiler.
 #
 # Note that there are some order dependencies
 # here. Specifically, an option that disables a warning will
 # have no net effect if a later option then enables that
```

```
 # warnings, (perhaps implicitly). So we put some grouped
 # options (-Wall and -Wextra) up front and the -Wno options
 # last.

 for W in $MAYBE_WARN; do
  LIBDRM_CC_TRY_FLAG([$W], [WARN_CFLAGS="$WARN_CFLAGS $W"])
 done

 libdrm_cv_warn_cflags=$WARN_CFLAGS
 libdrm_cv_warn_maybe=$MAYBE_WARN

 AC_MSG_CHECKING([which warning flags were supported])])
WARN_CFLAGS="$libdrm_cv_warn_cflags"

# Check for atomic intrinsics
AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives, [
 drm_cv_atomic_primitives="none"

 AC_LINK_IFELSE([AC_LANG_PROGRAM([[
 int
 atomic_add(int i) { return __sync_fetch_and_add (&i, 1); }
 int atomic_cmpxchg(int i, int j, int k) { return __sync_val_compare_and_swap (&i, j, k); }
      ]],[[]])], [drm_cv_atomic_primitives="Intel"],[])

 if test "x$drm_cv_atomic_primitives" = "xnone"; then
  AC_CHECK_HEADER([atomic_ops.h], drm_cv_atomic_primitives="libatomic-ops")
 fi

 # atomic functions defined in <atomic.h> & libc on Solaris
 if test "x$drm_cv_atomic_primitives" = "xnone"; then
  AC_CHECK_FUNC([atomic_cas_uint], drm_cv_atomic_primitives="Solaris")
 fi
])

if test "x$drm_cv_atomic_primitives" = xIntel; then
 AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1,
  [Enable if your compiler supports the Intel __sync_* atomic primitives])
fi
if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
 AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
fi

dnl Print out the approapriate message considering the value set be the
dnl respective
 in $1.
dnl $1 - value to be evaluated. Eg. $INTEL, $NOUVEAU, ...
dnl $2 - libdrm shortname. Eg. intel, freedreno, ...
dnl $3 - GPU name/brand. Eg. Intel, NVIDIA Tegra, ...
```

```
dnl $4 - Configure switch. Eg. intel, omap-experimental-api, ...
AC_DEFUN([LIBDRM_ATOMICS_NOT_FOUND_MSG], [
 case "x$1" in
  xyes) AC_MSG_ERROR([libdrm_$2 depends upon atomic operations, which were not found for your compiler/cpu.
Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those, disable
support for $3 GPUs by passing --disable-$4 to ./configure]) ;;
  xauto) AC_MSG_WARN([Disabling $2. It depends on atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.]) ;;
  *) ;;
 esac
])

if test "x$drm_cv_atomic_primitives" = "xnone"; then
 LIBDRM_ATOMICS_NOT_FOUND_MSG($INTEL, intel, Intel, intel)
 INTEL=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($RADEON, radeon, Radeon, radeon)
 RADEON=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($NOUVEAU,
 nouveau, NVIDIA, nouveau)
 NOUVEAU=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($OMAP, omap, OMAP, omap-experimental-api)
 OMAP=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($FREEDRENO, freedreno, Qualcomm Adreno, freedreno)
 FREEDRENO=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($TEGRA, tegra, NVIDIA Tegra, tegra-experimental-api)
 TEGRA=no
else
 if test "x$INTEL" = xauto; then
  case $host_cpu in
   i?86|x86_64) INTEL=yes ;;
   *)  INTEL=no ;;
  esac
 fi
 if test "x$RADEON" = xauto; then
  RADEON=yes
 fi
 if test "x$NOUVEAU" = xauto; then
  NOUVEAU=yes
 fi
 if test "x$FREEDRENO" = xauto; then
  case $host_cpu in
   arm*|aarch64) FREEDRENO=yes ;;
   *)  FREEDRENO=no ;;
```

```
  esac
 fi
fi

if test "x$INTEL" != "xno"; then
 PKG_CHECK_MODULES(PCIACCESS, [pciaccess >= 0.10])
fi
AC_SUBST(PCIACCESS_CFLAGS)
AC_SUBST(PCIACCESS_LIBS)

if test "x$UDEV" = xyes; then
 AC_DEFINE(UDEV, 1, [Have UDEV support])
fi

AC_CANONICAL_HOST
if test "x$LIBKMS" = xauto ; then
 case $host_os in
  linux*)  LIBKMS="yes"
 ;;
  freebsd* | kfreebsd*-gnu)
    LIBKMS="yes" ;;
  dragonfly*) LIBKMS="yes" ;;
  *)  LIBKMS="no" ;;
 esac
fi

AM_CONDITIONAL(HAVE_LIBKMS, [test "x$LIBKMS" = xyes])

AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" = xyes])
if test "x$INTEL" = xyes; then
 AC_DEFINE(HAVE_INTEL, 1, [Have intel support])
fi

AM_CONDITIONAL(HAVE_VMWGFX, [test "x$VMWGFX" = xyes])
if test "x$VMWGFX" = xyes; then
 AC_DEFINE(HAVE_VMWGFX, 1, [Have vmwgfx kernel headers])
fi

AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" = xyes])
if test "x$NOUVEAU" = xyes; then
 AC_DEFINE(HAVE_NOUVEAU, 1, [Have nouveau (nvidia) support])
fi

AM_CONDITIONAL(HAVE_OMAP, [test "x$OMAP" = xyes])
if test "x$OMAP" = xyes; then
 AC_DEFINE(HAVE_OMAP, 1, [Have OMAP support])
fi
```

```
AM_CONDITIONAL(HAVE_EXYNOS, [test "x$EXYNOS" = xyes])
if test "x$EXYNOS" = xyes; then
 AC_DEFINE(HAVE_EXYNOS, 1, [Have EXYNOS support])
fi

AM_CONDITIONAL(HAVE_FREEDRENO, [test "x$FREEDRENO" = xyes])
if test "x$FREEDRENO" = xyes; then
 AC_DEFINE(HAVE_FREEDRENO, 1,
 [Have freedreno support])
fi

if test "x$FREEDRENO_KGSL" = xyes; then
 if test "x$FREEDRENO" != xyes; then
  AC_MSG_ERROR([Cannot enable freedreno KGSL interface if freedreno is disabled])
 fi
fi
AM_CONDITIONAL(HAVE_FREEDRENO_KGSL, [test "x$FREEDRENO_KGSL" = xyes])
if test "x$FREEDRENO_KGSL" = xyes; then
 AC_DEFINE(HAVE_FREEDRENO_KGSL, 1, [Have freedreno support for KGSL kernel interface])
fi

AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" = xyes])
if test "x$RADEON" = xyes; then
 AC_DEFINE(HAVE_RADEON, 1, [Have radeon support])
fi

AM_CONDITIONAL(HAVE_TEGRA, [test "x$TEGRA" = xyes])
if test "x$TEGRA" = xyes; then
 AC_DEFINE(HAVE_TEGRA, 1, [Have Tegra support])
fi

AM_CONDITIONAL(HAVE_INSTALL_TESTS, [test "x$INSTALL_TESTS" = xyes])
if test "x$INSTALL_TESTS" = xyes; then
 AC_DEFINE(HAVE_INSTALL_TESTS, 1, [Install test programs])
fi

AC_ARG_ENABLE([cairo-tests],
        [AS_HELP_STRING([--enable-cairo-tests],
                [Enable support for Cairo rendering in tests
 (default: auto)])],
        [CAIRO=$enableval], [CAIRO=auto])
PKG_CHECK_MODULES(CAIRO, cairo, [HAVE_CAIRO=yes], [HAVE_CAIRO=no])
AC_MSG_CHECKING([whether to enable Cairo tests])
if test "x$CAIRO" = xauto; then
 CAIRO="$HAVE_CAIRO"
fi
if test "x$CAIRO" = xyes; then
 if ! test "x$HAVE_CAIRO" = xyes; then
```

```
 AC_MSG_ERROR([Cairo support required but not present])
fi
 AC_DEFINE(HAVE_CAIRO, 1, [Have Cairo support])
fi
AC_MSG_RESULT([$CAIRO])
AM_CONDITIONAL(HAVE_CAIRO, [test "x$CAIRO" = xyes])

# For enumerating devices in test case
PKG_CHECK_MODULES(LIBUDEV, libudev, [HAVE_LIBUDEV=yes], [HAVE_LIBUDEV=no])
if test "x$HAVE_LIBUDEV" = xyes; then
  AC_DEFINE(HAVE_LIBUDEV, 1, [Have libudev support])
fi
AM_CONDITIONAL(HAVE_LIBUDEV, [test "x$HAVE_LIBUDEV" = xyes])

# xsltproc for docbook manpages
AC_ARG_ENABLE([manpages],
        AS_HELP_STRING([--disable-manpages], [disable manpages @<:@default=enabled@:>@]),
        [MANS=$enableval], [MANS=auto])
AC_PATH_PROG(XSLTPROC, xsltproc)
AM_CONDITIONAL([BUILD_MANPAGES],
 [test "x$XSLTPROC" != "x" -a "x$MANS" != "xno"])

# check for offline man-pages stylesheet
AC_MSG_CHECKING([for docbook manpages stylesheet])
MANPAGES_STYLESHEET="http://docbook.sourceforge.net/release/xsl/current/manpages/docbook.xsl"
AC_PATH_PROGS_FEATURE_CHECK([XSLTPROC_TMP], [xsltproc],
                AS_IF([`"$ac_path_XSLTPROC_TMP" --nonet "$MANPAGES_STYLESHEET" > /dev/null
2>&1`],
                      [HAVE_MANPAGES_STYLESHEET=yes]))
if test "x$HAVE_MANPAGES_STYLESHEET" = "xyes"; then
    AC_SUBST(MANPAGES_STYLESHEET)
    AC_MSG_RESULT([yes])
else
    AC_MSG_RESULT([no])
fi
AM_CONDITIONAL([HAVE_MANPAGES_STYLESHEET], [test "x$HAVE_MANPAGES_STYLESHEET" =
"xyes"])

PKG_CHECK_MODULES(VALGRIND, [valgrind], [have_valgrind=yes], [have_valgrind=no])
if test "x$have_valgrind" = "xyes"; then
 AC_DEFINE([HAVE_VALGRIND], 1, [Use valgrind intrinsics to suppress false warnings])
fi

AC_ARG_WITH([kernel-source],

    [AS_HELP_STRING([--with-kernel-source],
        [specify path to linux kernel source])],
   [kernel_source="$with_kernel_source"])
```

```
AC_SUBST(kernel_source)

dnl Add flags for gcc and g++
if test "x$GCC" = xyes; then
  # Enable -fvisibility=hidden if using a gcc that supports it
  save_CFLAGS="$CFLAGS"
  AC_MSG_CHECKING([whether $CC supports -fvisibility=hidden])
  VISIBILITY_CFLAGS="-fvisibility=hidden"
  CFLAGS="$CFLAGS $VISIBILITY_CFLAGS"
  AC_LINK_IFELSE([AC_LANG_PROGRAM()], AC_MSG_RESULT([yes]),
                 [VISIBILITY_CFLAGS=""; AC_MSG_RESULT([no])]);

  # Restore CFLAGS; VISIBILITY_CFLAGS are added to it where needed.
  CFLAGS=$save_CFLAGS

  if test "x$VISIBILITY_CFLAGS" != x; then
     AC_DEFINE(HAVE_VISIBILITY, 1, [Compiler has -fvisibility support])
  fi

  AC_SUBST([VISIBILITY_CFLAGS])
fi

AC_SUBST(WARN_CFLAGS)
AC_CONFIG_FILES([
 Makefile
 libkms/Makefile
 libkms/libkms.pc
 intel/Makefile
 intel/libdrm_intel.pc
 radeon/Makefile
 radeon/libdrm_radeon.pc
 nouveau/Makefile
 nouveau/libdrm_nouveau.pc
 omap/Makefile
 omap/libdrm_omap.pc
 exynos/Makefile
 exynos/libdrm_exynos.pc
 freedreno/Makefile
 freedreno/libdrm_freedreno.pc
 tegra/Makefile
 tegra/libdrm_tegra.pc
 tests/Makefile
 tests/modeprint/Makefile
 tests/modetest/Makefile
 tests/kmstest/Makefile
 tests/proptest/Makefile
 tests/radeon/Makefile
 tests/vbltest/Makefile
```

```
 tests/exynos/Makefile
 tests/tegra/Makefile
 tests/nouveau/Makefile
 man/Makefile
 libdrm.pc])
AC_OUTPUT

echo
 ""
echo "$PACKAGE_STRING will be compiled with:"
echo ""
echo "  libkms         $LIBKMS"
echo "  Intel API      $INTEL"
echo "  vmwgfx API     $VMWGFX"
echo "  Radeon API     $RADEON"
echo "  Nouveau API    $NOUVEAU"
echo "  OMAP API       $OMAP"
echo "  EXYNOS API     $EXYNOS"
echo "  Freedreno API  $FREEDRENO (kgsl: $FREEDRENO_KGSL)"
echo "  Tegra API      $TEGRA"
echo ""
```

Found in path(s):
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/configure.ac
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/kgsl/kgsl_priv.h
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/kgsl/kgsl_device.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-

jRemOesn/libdrm-2.4.60/freedreno/kgsl/kgsl_ringbuffer.c
*
/libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/msm/msm_pipe.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/msm/msm_ringbuffer.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/msm/msm_device.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/msm/msm_priv.h
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/kgsl/kgsl_pipe.c
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/radeon/bof.c
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/Android.mk
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/* drmstat.c -- DRM device status and testing program
* Created: Tue Jan 5 08:19:24 1999 by faith@precisioninsight.com
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-

jRemOesn/libdrm-2.4.60/freedreno/freedreno_pipe.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/freedreno_device.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/freedreno_ringbuffer.h
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/freedreno_bo.c
*
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/freedreno/freedreno_priv.h
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/*
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/tests/modetest/modetest.c
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/tests/modetest/buffers.h

* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/tests/modetest/buffers.c
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/xf86drmMode.h
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/tests/getclient.c
*
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/tests/setversion.c
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/tests/drmtest.h
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution.  There are two potentially interesting things
* about this implementation:
*
* 1) The table is power-of-two sized.  Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.
*
* 2) The hash computation
 uses a table of random integers [Hanson97,
* pp. 39-41].
*
* FUTURE ENHANCEMENTS
*
* With a table size of 512, the current implementation is sufficient for a
* few hundred keys.  Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises.  A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table.  The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.
*
* REFERENCES
*
* [Hanson97] David R. Hanson.  C Interfaces and Implementations:
* Techniques for Creating Reusable Software.  Reading, Massachusetts:
 * Addison-Wesley, 1997.
*
* [Knuth73] Donald E. Knuth. The Art of Computer Programming.  Volume 3:
* Sorting and Searching.  Reading, Massachusetts: Addison-Wesley, 1973.
*
* [Larson88] Per-Ake Larson. "Dynamic Hash Tables".  CACM 31(4), April
* 1988, pp. 446-457.
*
```

*/

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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/xf86drmHash.c
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* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/radeon/radeon_surface.h
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
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*
* REFERENCES
*
* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/

Found in path(s):
* /libdrm-2.4.60-3.el7-1.src.rpm-cosi-expand-archive-Yo1BqiLW/libdrm-2.4.60.tar.bz2-cosi-expand-archive-jRemOesn/libdrm-2.4.60/xf86drmSL.c

1.633 plymouth 0.8.9-0.24.20140113.el7.centos

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1.638 raritan-ipmi 1-1

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1.639 sysv-init 2.99

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1.641 libcgroup 0.41

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1.642 time 1.9

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1.645 lvm2 1.02.175

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L. Peter Deutsch
ghost@aladdin.com

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