



Open Source Used In Firepower 9300/41xx Supervisor 2.10.1

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 - 1.429.1 Available under license
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 - 1.431.1 Available under license
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- 1.435 uclibc 1.3.3-040609**
 - 1.435.1 Available under license
- 1.436 libedit 20080614-2.11**
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1.442 fdisk 2.32.1

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1.443 tdb 1.44.3-r0

1.443.1 Available under license

1.1 libtomcrypt 1.17

1.1.1 Available under license :

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

1.2 grub 0.97

1.2.1 Available under license :

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1.3 apache-log4j 1.2.15

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1.4 glibc 2.7

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1.5 openssl 0.9.8g

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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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1.7 unzip 6.0

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1.12 libpciaccess 0.12.902-1

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```
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```

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

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

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*/

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1.16 pcre 8.32

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1.21 bzip2 1.0.6

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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/*
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minibz2
```

```
libbz2.dll test program.
```

```
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
```

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```

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usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
```

```
*/
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1.22 ethtool 3.9

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1.23 zlib 1.2.5

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LibTomMath is hereby released into the Public Domain.

-- Tom St Denis

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

Tom St Denis

1.25 cracklib 2.9.1

1.25.1 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
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GPL-2 ... it was a modified artistic license ... i didnt notice the license=
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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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>> it was enough to just get it consistent and documented as to what
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>> released under. This wasn't actually a license change, just a
>> clarification of the licensing that was already in place.

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> GPL-2 ... it was a modified artistic license ... i didnt notice the
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> place of a
> library

to dictact to application writes what license they should

> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

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

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional

code, so whatever licensing y'all come up with is fine

>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

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

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

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> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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> 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.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umn.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.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umn.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

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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

Preamble

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these things.

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

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

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

^L

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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

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

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

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

The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

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

^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 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.

^L

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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1.26 bind 9.9.5

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

<!-- \$Id: copyright.xml,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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1.27 zlib 1.2.8

1.27.1 Available under license :

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

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

*/

1.28 unzip 6.0

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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.

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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).

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* 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)

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*

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*
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*
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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 contributions as useful as we have his.

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

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.29 free-type 2.5.3

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--- end of FTL.TXT ---

1.30 zlib 1.2.3

1.30.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002

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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 ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

```
*/  
/* match.s -- Pentium-optimized version of longest_match()  
* Written for zlib 1.1.2  
* Copyright (C) 1998 Brian Raiter <breadbox@muppetlabs.com>  
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*/
```

1.31 apr-util 1.5.4

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```
#
#
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 */
```

1.32 libxmu 1.1.1

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1.34 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 from 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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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, '
'))"/>
<xsl:text>
</xsl:text>
<xsl:variable name="rest" select="substring-after(\$text, '
')"/>
<xsl:if test="translate(\$rest, '	 ', '')">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text" select="\$rest"/>
</xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
<xsl:text>
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</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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1.35 net-snmp 5.1

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1.36 libpcap 1.7.3

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1.37 apache-http-server 2.4.16

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```
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* httpd@ncsa.uiuc.edu  
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=====
```

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

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

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```
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 */
```

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For the server\util_md5.c component:

```
/*
 * NCSA HTTPd Server
 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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 ****
 *
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 *
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*/

```
/*
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 * -----
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 * this stuff is worth it, you can buy me a beer in return. Poul-Henning Kamp
 * -----
 */
```

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For the srclib\apr-util\xml\expat\confutils\install-sh component:

#

install - install a program, script, or datafile

This comes from X11R5 (mit/util/scripts/install.sh).

#

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```

For the test\zb.c component:

```
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=====
```

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

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

```
*/
```

For the expat xml parser component:

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

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
```

<div class="up"></div>
<div id="path">
Apache > HTTP Server > Documentation > Version 2.4</div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplant">
<p>Available Languages:
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</div>

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

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<script type="text/javascript"><!--><![CDATA[//><!--

```

var comments_shortcode = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +
comments_identifier;

    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
--><![></script><div id="footer">
<p class="apache">Copyright 2015 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[</><!--
if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
}
--><![></script>
</body></html>

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1.38 cyrus-sasl 2.1.26 20.e17_2

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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1.40 smartmontools 6.4

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1.41 findutils 4.6.0

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Version 3, 29 June 2007

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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
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Dan Egnor <egnor@google.com>
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1.45 open-ldap 2.4.40 9.el7_2

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

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```

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1.48 bash 4.2.46 20.e17_2

1.48.1 Available under license :

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

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

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

es frobs in that file.

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

From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@armory.com

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

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <spcedt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700

In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)

X-Www: <http://www.armory.com/~spcedt/>

X-Mailer: Mail User's Shell (7.2.5 10/14/92)

To: chet@po.cwru.edu

Subject: Re: ksh scripts

Message-ID: <9505092233.aa13001@deepthought.armory.com>

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

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
```

```
} the FSF.  
}  
} I picked up a tar file of ksh scripts you wrote from an anon FTP site  
} a while back. I'd like your permission to include modified versions  
} of some of them in  
} the next major bash distribution (with proper credit  
} given, of course). Is it OK if I do that?  
}  
} Chet Ramey  
}  
} --  
} ``The lyf so short, the craft so long to lerne." - Chaucer  
}  
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu  
}-- End of excerpt from Chet Ramey
```

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```
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```

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From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400

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id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing

it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

1.49 biosdevname 0.6.2 1.e17

1.49.1 Available under license :

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Version 2, June 1991

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1.51 curl 7.29.0 25.el7.centos

1.51.1 Available under license :

License Mixing with apps, libcurl and Third Party Libraries

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD

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libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

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

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

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

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

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axTLS <http://axtls.sourceforge.net/>

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

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

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

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

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

krb4

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

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

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Heimdal <http://www.pdc.kth.se/heimdal/>

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the

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

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

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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[3] = LGPL - GNU Lesser General Public License:

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1.52 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 from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

The hypothetical commands

```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.54 e2fsprogs 1.42.9 7.el7

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
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```
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of author>
```

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```
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```

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

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

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

That's all there is to it!

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

all:: image

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

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

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LD_FLAGS) $(OBS))
$(MV) pic/$(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)/$(BSD_LIB)
@-$(LD_CONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

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

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

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

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

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

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

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

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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

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1.55 elfutils 0.163 3.e17

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```

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(at your option) any later version.
```

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

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.58 findutils 4.5.11 5.e17

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

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

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

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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.

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END OF TERMS AND CONDITIONS

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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```
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1.60 glib 2.42.2 5.e17

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Version 2, June 1991

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1.61 gmp 6.0.0 12.el7_1

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1.63 iputils 20121221 7.e17

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1.64 jansson 2.4 6.el7

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1.65 kexec-tools 2.0.7 38.el7_2.1

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1.66 keyutils 1.5.8 3.e17

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

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```
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```

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

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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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If such an object file uses only numerical parameters, data

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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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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.

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

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

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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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1.73 lua 5.1.4 14.el7

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1.74 net-tools 2.0 0.17.20131004git.el7

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Written by: Philip Hazel
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1.85 unzip 6.0 15.e17

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FIRST NOTE:

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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 accompanying file LICENSE. The terms and conditions in this license supersede the

copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); 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 License. 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).

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

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

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

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.86 vim 7.4.160 1.el7

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(XPM - X PixMap format version 2 & 3)
Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
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=====
Kibaale Children's Centre *kcc* *Kibaale* *charity*

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

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

The key to solving the problems in this area is education. This has been

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

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

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

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

donate

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

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

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

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

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

The address of the centre is:

Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

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

Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

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

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

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

1.87 xz 5.1.2 12alpha.el7

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1.88 zip 3.0 10.el7

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Format stream_lf

1.89 zlib 1.2.7 15.el7

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1.90 util-linux 2.23.2 26.el7_2.3

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```

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

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

```
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
```

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

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

| Device | Boot | Start | End | Blocks | Id | System |
|--------|------|-------|-----|--------|----|--------|
|--------|------|-------|-----|--------|----|--------|

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

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

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

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

---layout-----

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

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

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

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

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

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

16064 16065 unused 0 0

BSD disklabel command (m for help):

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

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

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| # | start | end | size | fstype | [fsize | bsize | cpg] |
|----|-------|-------|-------|--------|--------|-------|------|
| a: | 4096 | 6144 | 2049 | 4.2BSD | 0 | 0 | 0 |
| c: | 4096 | 20479 | 16384 | unused | 0 | 0 | |
| d: | 0 | 16064 | 16065 | unused | 0 | 0 | |

BSD disklabel command (m for help):

Command (m for help):

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

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

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

BSD disklabel command (m for help):

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1.91 usb-modeswitch 1.2.7 6.el7

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1.96 pam 1.1.8 12.el7_1.1

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1.98 openssl 1.0.2j

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1.99 libpcap 1.8.1

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1.100 python 2.7.12

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

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

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

Written by Marc-Andre Lemburg (mal@lemburg.com).

Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)

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/* Random objects */

/* -----

The code in this module was based on a download from:

<http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html>

It was modified in 2002 by Raymond Hettinger as follows:

* the principal computational lines untouched except for tabbing.

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

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

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

The following are the verbatim comments from the original code:

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

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

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

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

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

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| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |

| | | | | |
|---------------|-----------|------|-----|-----|
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| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
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# implied.
# subprocess - Subprocesses with accessible I/O streams
#
# For more information about this module, see PEP 324.
```

```
#
# This module should remain compatible with Python 2.2, see PEP 291.
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----- */

```
# ElementTree
# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
# limited xinclude support for element trees
#
# history:
# 2003-08-15 fl created
# 2003-11-14 fl fixed default loader
#
# Copyright (c) 2003-2004 by Fredrik Lundh. All rights reserved.
#
# fredrik@pythonware.com
# http://www.pythonware.com
#
# -----
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install - install a program, script, or datafile

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#
# -- Gregory P. Smith <greg@krypto.org>
#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $
# Original version written by Greg Stein (gstein@lyra.org)
# and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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

Before using, initialize the state by using `init_genrand(seed)`
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<http://www.math.keio.ac.jp/matumoto/emt.html>

email: matumoto@math.keio.ac.jp

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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

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include

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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

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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Select kqueue

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library  
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```

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

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

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

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```

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```

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```

```
#
```

```
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```

```
use strict;
```

```
use warnings;
```

```
my $margin = 72;
```

```
my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
```

```
if (!$this_year || $this_year !~ m/^\d{4}$/)
```

```
{
```

```
    my ($sec, $min, $hour, $mday, $month, $year) = localtime
```

```

(time ());
  $this_year = $year + 1900;
}
my $old_re = <<'EOF'
(
  (?^\n)
  #BEFORE
  (?
    b4_copyright\(\[[^]]*\]
    | m4_(?:push|pop)def\(\[b4_copyright_years]
  )
  #AFTER
)
  (?
    ,\s*
    (
      \[s* (?:\d{4}(?:,\s*|-))* (\d{4}) \s*]
    )
  )?
  \)
EOF
;

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

  # If there was a second argument, it contains years, so update them.
  if ($final_year)
  {
    $b4_copyright_line .= ' ';
    if ($final_year != $this_year)
    {
      # Update the year.
      $year_lines =~ s/$final_year/$final_year, $this_year/;
    }

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

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

    # Compress to intervals.

```



```

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

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

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

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

while (/(\bb4_copyright\()/g)
{
  my $start = pos () - length ($1);
  my $end = pos ();

```

```

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

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

```

1.106 libsm 1.2.2

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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;
}

```

/* Initialize 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 than 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 than 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 $u = u_0 + u_1 \cdot (b^n)$

Let $v = v_0 + v_1 \cdot (b^n)$

Then $uv = (B^{2n+B^n}) \cdot u_1 \cdot v_1 + B^n \cdot (u_1 - u_0) \cdot (v_0 - v_1) + (B^{n+1}) \cdot u_0 \cdot v_0$

B is the base of storage, number of digits in u_1, u_0 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_raise_mod (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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1.115 cpio 2.11-24.el7

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Version 3, 29 June 2007

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

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

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

The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.117 libuser 0.60-7.e17_1

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Version 2, June 1991

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1.118 ncurses 5.9-13.20130511.e17

1.118.1 Available under license :

Upstream source <http://invisible-island.net/ncurses/ncurses-examples.html>

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Files: install-sh

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Calling this script `install-sh` is preferred over `install.sh`, to prevent `make` implicit rules from creating a file called `install` from it when there is no `Makefile`.

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

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2`

1.119 inetutils 1.9.4

1.119.1 Available under license :

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Version 3, 29 June 2007

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1. Source Code.

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Version 2.1, February 1999

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1.124 libpkit 0.23.5-3.el7

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1.125 cracklib 2.9.0 11.el7

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It was downloaded from <http://sourceforge.net/projects/cracklib>

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

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EFFECTIVE

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

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

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

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

-- Nathan
=20

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

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

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

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
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Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

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

> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
>

Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license
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From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

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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

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Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message

as HTML

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

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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 I91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct
2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
RO
Content-Length: 585
Lines: 21

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

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

Happy now? :-)

-a

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=
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

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> 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

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From

alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])

by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623

for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])

by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311

for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
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X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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

Happy now? :-)

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1.126 libpwquality 1.2.3-4.el7

1.126.1 Available under license :

Unless otherwise *explicitly* stated the following text describes the licensed conditions under which the contents of this libpwquality release may be distributed:

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Version 2, June 1991

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Preamble

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1.127 gawk 4.2.1

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

1.129 libcap-ng 0.7.5 4.el7

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distribute

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```
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```

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```
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```

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

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1.130 keyutils 1.5.8 3.el7

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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.

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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

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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, 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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1.131 pcre 8.42

1.131.1 Available under license :

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Cambridge, England.

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1.132 zlib 1.2.11

1.132.1 Available under license :

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

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.133 glibc 2.28

1.133.1 Available under license :

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@enumerate 0

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```
/* _setjmp is implemented in setjmp.S */
```

```
/* setjmp is implemented in setjmp.S */
```

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1.135 gzip 1.9

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1.136 zlib 1.2.3

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

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

*/

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1.137 apr 1.5.1

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

/*

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From dso/aix/dso.c:

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

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

- *
- * cvt - IEEE floating point formatting routines.
- * Derived from UNIX V7, Copyright(C) Caldera International Inc.
- *

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1.138 bind 9.11.4

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

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

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

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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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:for-each>
    </xsl:with-param>
  </xsl:call-template>
  <xsl:text>&#10;</xsl:text>
</xsl:variable>

```

```
select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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1.139 sqlite 3.28.0

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1.141 zlib 1.2.8

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

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1.142 cpio 2.12

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```

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```

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1.143 dmidecode 3.5

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1.144 zlib 1.2.5

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```
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version 1.2.11, January 15th, 2017
```

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1.147 python 3.3.0

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

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|----------------|--------------|-----------|------------|---------------------|
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| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
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.. _history-and-license:

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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 <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 specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | no |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
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Mersenne Twister

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

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

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

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

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Sockets

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

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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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Select kqueue

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SipHash24

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

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Original location:

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

Solution inspired by code from:

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

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zlib

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cfuhash

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

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1.150 tcl 8.3.0

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1.158 tcl 8.5.14

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1.159 foxtrot-core 4.0

1.160 kerberos 1.16

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```
cmd/krb5/iproplib/iproplib.x
cmd/krb5/iproplib/iproplib_hdr.h
cmd/krb5/kadmin/server/iproplib_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
```

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

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>MIT Kerberos License information &#8212; MIT Kerberos Documentation</title>
```

```
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
```

```
<script type="text/javascript">
```

```
var DOCUMENTATION_OPTIONS = {
```

```
    URL_ROOT:    '.',
```

```
    VERSION:    '1.17',
```

```
    COLLAPSE_INDEX: false,
```

```
    FILE_SUFFIX: '.html',
```

```
    HAS_SOURCE: true,
```

```
    SOURCELINK_SUFFIX: '.txt'
```

```
};
```

```
</script>
```

```
<script type="text/javascript" src="_static/jquery.js"></script>
```

```
<script type="text/javascript" src="_static/underscore.js"></script>
```

```
<script type="text/javascript"
```

```
src="_static/doctools.js"></script>
```

```
<link rel="author" title="About these documents" href="about.html" />
```

```
<link rel="index" title="Index" href="genindex.html" />
```

```
<link rel="search" title="Search" href="search.html" />
```

```
<link rel="copyright" title="Copyright" href="copyright.html" />
```

```
<link rel="next" title="Copyright" href="copyright.html" />
```

```
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
```

```
</head>
```

```
<body>
```

```
<div class="header-wrapper">
```

```
<div class="header">
```

```
<h1><a href="index.html">MIT Kerberos Documentation</a></h1>
```

```
<div class="rel">
```

```
<a href="index.html" title="Full Table of Contents"
```

```
    accesskey="C">Contents</a> |
```

```
<a href="mitK5features.html" title="MIT Kerberos features"
```

```
    accesskey="P">previous</a> |
```

```
<a href="copyright.html" title="Copyright"
```

```
    accesskey="N">next</a> |
```

```
<a href="genindex.html"
```

```

title="General Index"
  accesskey="I">index</a> |
  <a href="search.html" title="Enter search criteria"
  accesskey="S">Search</a> |
  <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
  </div>
</div>
</div>

<div class="content-wrapper">
  <div class="content">
    <div class="document">

      <div class="documentwrapper">
        <div class="bodywrapper">
          <div class="body" role="main">

            <div class="section" id="mit-kerberos-license-information">
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
kerberos-license-information" title="Permalink to this headline"></a></h1>
<div class="toctree-wrapper compound">
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GSSAPI mechglue in GSSAPI-SPNEGO in

```
<code class="docutils literal"><span class="pre">src/lib/gssapi</span></code>, including the following files:</p>  
<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">lib</span><span  
class="o"></span><span class="n">gssapi</span><span class="o"></span><span  
class="n">generic</span><span class="o"></span><span class="n">gssapi_err_generic</span><span  
class="o"></span><span class="n">et</span>  
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span  
class="o"></span><span class="n">mechglue</span><span class="o"></span><span  
class="n">g_accept_sec_context</span><span class="o"></span><span class="n">c</span>  
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span  
class="o"></span><span class="n">mechglue</span><span class="o"></span><span  
class="n">g_acquire_cred</span><span class="o"></span><span class="n">c</span>  
<span class="n">lib</span><span class="o"></span><span class="n">mechglue</span><span  
class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span  
class="o"></span><span class="n">g_canon_name</span><span class="o"></span><span class="n">c</span>  
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span  
class="o"></span><span class="n">mechglue</span><span class="o"></span><span  
class="n">g_compare_name</span><span class="o"></span><span class="n">c</span>  
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span
```



```
class="n">gssapiP_spnego</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o"></span></span><span>
  class="n">gssapi</span><span class="o"></span><span class="n">spnego</span><span
class="o"></span><span class="n">spnego_mech</span><span class="o">.</span><span class="n">c</span>
</pre></div>
</div>
```

<p>and the initial implementation of incremental propagation, including the following new or changed files:</p>

```
<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">include</span><span
class="o"></span><span class="n">iprop_hdr</span><span class="o">.</span><span class="n">h</span>
<span class="n">kadmin</span><span class="o"></span><span class="n">server</span><span
class="o"></span><span class="n">ipropd_svc</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span>
class="n">iprop</span><span class="o">.</span><span class="n">x</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span>
class="n">kdb_convert</span><span
class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span>
class="n">kdb_log</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span>
class="n">kdb_log</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o"></span><span class="n">krb5</span><span>
class="o"></span><span class="n">error_tables</span><span class="o"></span><span>
class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">kprop</span><span class="o"></span><span class="n">kpropd_rpc</span><span>
class="o">.</span><span class="n">c</span>
<span class="n">kprop</span><span class="o"></span><span class="n">kproplog</span><span>
class="o">.</span><span class="n">c</span>
</pre></div>
</div>
```

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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

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

.. parsed-literal::

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
```

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*/

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>Copyright &#8212; MIT Kerberos Documentation</title>
```

```
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
```

```
<script type="text/javascript">
```

```
var DOCUMENTATION_OPTIONS = {
```

```
    URL_ROOT:    '.',
```

```
    VERSION:    '1.17',
```

```
    COLLAPSE_INDEX: false,
```

```
    FILE_SUFFIX: '.html',
```

```
    HAS_SOURCE: true,
```

```
    SOURCELINK_SUFFIX: '.txt'
```

```
};
```

```
</script>
```

```
<script type="text/javascript" src="_static/jquery.js"></script>
```

```
<script type="text/javascript" src="_static/underscore.js"></script>
```

```
<script type="text/javascript" src="_static/doctools.js"></script>
```

```
<link rel="author" title="About these documents" href="about.html" />
```

```
<link rel="index" title="Index" href="genindex.html" />
```

```
<link rel="search" title="Search" href="search.html" />
```

```
<link rel="copyright" title="Copyright" href="#" />
```

```
<link rel="next" title="How to build this documentation from the source" href="build_this.html" />
```

```
<link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
```

```
</head>
```

```
<body>
```

```
<div class="header-wrapper">
```

```
<div class="header">
```

```
<h1><a href="index.html">MIT Kerberos Documentation</a></h1>
```

```
<div class="rel">
```

```
<a href="index.html" title="Full Table of Contents"
```

```
    accesskey="C">Contents</a> |
```

```
<a href="mitK5license.html" title="MIT Kerberos License information"
```

```
    accesskey="P">previous</a> |
```

```
<a href="build_this.html" title="How to build this documentation from the
```

```
source"
```

```
    accesskey="N">next</a> |
```

```
<a href="genindex.html" title="General Index"
  accesskey="I">index</a> |
<a href="search.html" title="Enter search criteria"
  accesskey="S">Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
</div>
</div>
</div>
```

```
<div class="content-wrapper">
<div class="content">
  <div class="document">
```

```
  <div class="documentwrapper">
    <div class="bodywrapper">
      <div class="body" role="main">
```

```
  <div class="section" id="copyright">
<h1>Copyright<a class="headerlink" href="#copyright" title="Permalink to this headline"></a></h1>
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</div>
```

```
  </div>
</div>
</div>
</div>
  <div class="sidebar">
<h2>On this page</h2>
<ul>
<li><a class="reference internal" href="#">Copyright</a></li>
</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 internal" href="admin/index.html">For administrators</a></li>
<li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
<li class="toctree-l1"><a class="reference internal" href="basic/index.html">Kerberos V5 concepts</a></li>
```

```
<li class="toctree-l1"><a class="reference internal"
href="formats/index.html">Protocols and file formats</a></li>
<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
the source</a></li>
<li class="toctree-l1"><a class="reference internal" href="about.html">Contributing to the MIT Kerberos
Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>
```

```
<br/>
```

```
<h4><a href="index.html">Full Table of Contents</a></h4>
```

```
<h4>Search</h4>
```

```
<form class="search" action="search.html" method="get">
```

```
<input type="text" name="q" size="18" />
```

```
<input type="submit" value="Go" />
```

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<input type="hidden" name="check_keywords" value="yes" />
```

```
<input type="hidden" name="area" value="default" />
```

```
</form>
```

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</div>
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```
<div class="clearer"></div>
```

```
</div>
```

```
</div>
```

```
<div class="footer-wrapper">
```

```
<div class="footer" >
```

```
<div class="right" ><i>Release: 1.17</i><br />
```

```
&copy; <a href="#">Copyright</a> 1985-2019, MIT.
```

```
</div>
```

```
<div class="left">
```

```
<a href="index.html" title="Full Table of Contents"
```

```
>Contents</a> |
```

```
<a href="mitK5license.html" title="MIT Kerberos License information"
```

```
>previous</a> |
```

```
<a href="build_this.html" title="How to build this documentation from the source"
```

```
>next</a> |
```

```
<a href="genindex.html" title="General Index"
```

```
>index</a> |
```

```
<a href="search.html" title="Enter search criteria"
```

```
>Search</a> |
```

```
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

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

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c

lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/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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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'\s*.*?\s*/',
", 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('*').rstrip())
    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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1.163 flex 2.6.0

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Metadata-Version: 1.1

Name: flex

Version: 2.6.0

Summary: Swagger Schema validation.

Home-page: <https://github.com/pipermerriam/flex>

Author: Piper Merriam

Author-email: pipermerriam@gmail.com

License: BSD

Description: # FLEX

[![Build Status](<https://travis-ci.org/pipermerriam/flex.png>)](<https://travis-ci.org/pipermerriam/flex>)
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Validation tooling for [Swagger 2.0](<https://github.com/wordnik/swagger-spec/blob/master/versions/2.0.md>) specifications.

[Documentation on ReadTheDocs](<http://flex-swagger.readthedocs.org/en/latest/>)

Features

- * Validate swagger schemas.
- * JSON Schema Validation
- * Validation of request/response objects against schema.
- * Command Line interface.

Keywords: rest swagger

Platform: UNKNOWN

Classifier: Development Status :: 2 - Pre-Alpha

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Natural Language :: English

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Found in path(s):

* /opt/cola/permits/1000237027_1651084378.9/0/flex-2-6-0-macosx-10-10-x86-64-tar-gz/Users/piper/python-environments/flex/lib/python2.7/site-packages/flex-2.6.0-py2.7.egg-info/PKG-INFO

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* /opt/cola/permits/1000237027_1651084378.9/0/flex-2-6-0-macosx-10-10-x86-64-tar-gz/Users/piper/python-environments/flex/lib/python2.7/site-packages/flex/compat/validate_email.py

1.164 wget 1.19.5

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1.165 sudo 1.8.23

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

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
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
Nieuwsma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
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
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
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
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
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Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
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Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
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Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
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Uranga, Mikel Olasagasti
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1.166 pcre 8.38

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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That's all there is to it!

1.168 libjpeg 8d

1.168.1 Available under license :

The Independent JPEG Group's JPEG software

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README for release 9c of 14-Jan-2018

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

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty,
 terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
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.
coderrules.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

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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 REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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

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

by all standard GIF decoders.

REFERENCES

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

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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

The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

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

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual

specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

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

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites,

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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Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of

this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

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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 systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

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The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

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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.

1.169 net-tools 1.60

1.169.1 Available under license :

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Version 2, June 1991

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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:

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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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1.170 glibc 2.17-196.el7

1.170.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that 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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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

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

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

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

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

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

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major

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Appendix: How to Apply These Terms to Your New Libraries

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

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1.175 linux-kernel 3.10.0

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
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+ many more (please mail me if you are missing in this list and would like to be mentioned)

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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki

Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather
 lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
 *
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 * M. Welsh, 6 July 1996
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for CyberLogin for Linux which allows logging onto EON

(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter
<obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>

Roberto Ragusa <r.ragusa@libero.it>

Augusto Cardoso <augusto@carhil.net>

for all the work for the FlexCopII chipset by B2C2, Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
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Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the

TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>

Andreas 'randy' Weinberger

for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>

for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>

for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>

for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>

for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>

for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>

for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>

for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>

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

(If you think you should be in this list, but you are not, drop a
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1.176 gmp 6.1.2

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.181 tcl 8.5.9

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1.184 systemd-shim 219-19.el7_2.13

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1.185 zeromq 4.2.3

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1.189 busybox 1.21.0

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1.191 ncurses 6.1

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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-- vile: txtmode file-encoding=utf-8

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

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

Files: *

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Files: alocal.m4 package

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Files: install-sh

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-- vile: txtmode file-encoding=utf-8

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```
-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
```

1.192 attr 2.4.47

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```
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1.196 coreutils 8.30

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1.199 ethtool 4.19

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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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1.201 binutils 2.31.1

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The hypothetical commands

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

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

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


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(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

Keith

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Several engineers at Cygnus Solutions have also provided many

small
bug fixes and configuration enhancements.

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

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

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

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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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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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.

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

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

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(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.

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

Files: *

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

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

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

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

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

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

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

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

of the Library
will still fall under Section 6.)

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

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

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

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

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

@end enumerate

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

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

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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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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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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@center END OF TERMS AND CONDITIONS

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@page

@center How to Apply These Terms to Your New Libraries

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

@format

@t{

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

Copyright (C) <year> <name of author>

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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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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.

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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.

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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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.

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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.

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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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object code for the work under the terms of Section 6.

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

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a) Accompany

the work with the complete corresponding

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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,

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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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1.208 tcl 8.6.8

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1.209 sudo 1.8.19p2-10.el7

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank

Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
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Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
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Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
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Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
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Markham, Paul
Martinian,
Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
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Nikitser, Peter A.
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Petten, Diego Elio
Pickett, Joel
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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
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Schuring, Arno
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Scott, Dougal
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Van Dinter, Theo
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Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub

Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
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1.210 libxml 2.9.1

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1.211 netkit-telnet 0.17

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1.212 ntp 4.2.8p13

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```
/* -*- Mode: Text -*- */
```

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

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

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

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

```
/*  
* HMS: man pages already have this, and texi pages can use the  
* values in sntp/include/version.texi .  
*/
```

```
// doc-sub = {  
//   sub-name = version;  
//   sub-text = 's/#VERSION#/<<version>>/g';  
// };
```

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
```

```
<title>Copyright Notice</title>
```

```
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
```

```
<link href="scripts/style.css" type="text/css" rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
<h3>Copyright Notice</h3>
```

```
 "Clone me," says Dolly sheepishly.
```

```
<p>Last update:
```

```
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
```

```
UTC</p>
```

```
<br clear="left">
```

```
</p>
```

```
<hr>
```

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

Takao Abe <takao_abe@xurb.jp> Clock driver for JJY

receivers

Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller

Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices

Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5

Michael Barone <michael,barone@lmco.com> GPSVME fixes

Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option

Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver

Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support

Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snmp

Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support

Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)

Steve Clift <clift@ml.csiro.au> OMEGA clock driver

Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration

Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port

Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port

Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119

John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing

Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite

Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver

Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

Mike Iglesias <iglesias@uci.edu> DEC Alpha port

Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port

Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul

Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpsweep

Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)

Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>snpt</tt> to comply with NTPv4 specification, <tt>ntp saveconfig</tt>

William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications

Dave Katz <dkatz@cisco.com> RS/6000 AIX port

Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver

George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication

Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance

David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port

Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility

Tom Moore <tmoore@fieval.daytonoh.ncr.com> i386 svr4 port

Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

Derek Mulcahy <derek@toybox.demon.co.uk> and Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance

Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

Wilfredo Sàanchez <wsanchez@apple.com> added support for NetInfo

Nick Sayer <mrapple@quack.kfu.com> SunOS

streams modules
Jack Sasportas <jack@innovativeinternet.com>
Saved a Lot of space on the stuff in the html/pic/ subdirectory
Ray Schnitzler <schnitz@unipress.com> Unixware1
port
Michael Shields <shields@tembel.org> USNO clock
driver
Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS
clock driver
Harlan Stenn <harlan@pfcs.com> GNU
automake/autoconfigure makeover, various other bits (see the ChangeLog)
Kenneth Stone <ken@sdd.hp.com>
HP-UX port
Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast
support
Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-
u.ac.jp>TRAK clock driver
Brian Utterback <brian.utterback@oracle.com>
General codebase, Solaris issues
Loganaden Velvindron <loganaden@gmail.com>
Sandboxing (libseccomp) support
Paul A Vixie <vixie@vix.com> TrueTime GPS driver,
generic TrueTime clock driver
Ulrich Windl <Ulrich.Windl@rz.uni-
regensburg.de> corrected and validated HTML documents according to the HTML DTD

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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping
overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
[28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original
author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC>
(driver 14 reference clocks), STREAMS modules for PARSE, support
scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to
comply with NTPv4 specification, ntpq saveconfig
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44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
monitoring/trap scripts, statistics file handling

45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
 46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
 47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
 48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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 51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
 53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
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 55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
 56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
 57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
 58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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-

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
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9. mailto:%20Marc.Brett@westgeo.com
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20. mailto:%20jhay@icomtek.csir.co.za
21. mailto:%20davehart@davehart.com
22. mailto:%20neoclock4x@linum.com

23. mailto:%20glenn@herald.usask.ca
24. mailto:%20iglesias@uci.edu
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34. mailto:%20dkatz@cisco.com
35. mailto:%20leres@ee.lbl.gov
36. mailto:%20lindholm@ucs.ubc.ca
37. mailto:%20louie@ni.umd.edu
- 38.
- mailto:%20thorinn@diku.dk
39. mailto:%20mayer@ntp.org
40. mailto:%20mills@udel.edu
41. mailto:%20moeller@gwdgv1.dnet.gwdg.de
42. mailto:%20mogul@pa.dec.com
43. mailto:%20tmoore@fielvel.daytonoh.ncr.com
44. mailto:%20kamal@whence.com
45. mailto:%20derek@toybox.demon.co.uk
46. mailto:%20d@hd.org
47. mailto:%20neal@ntp.org
48. mailto:%20Rainer.Pruy@informatik.uni-erlangen.de
49. mailto:%20dirce@zk3.dec.com
50. mailto:%20wsanchez@apple.com
51. mailto:%20mrapple@quack.kfu.com
52. mailto:%20jack@innovativeinternet.com
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58. mailto:%20ajit@ee.udel.edu
59. mailto:%20tsuruoka@nc.fukuoka-u.ac.jp
60. mailto:%20brian.utterback@oracle.com
61. mailto:%20loganaden@gmail.com
62. mailto:%20vixie@vix.com
63. mailto:%20Ulrich.Windl@rz.uni-regensburg.de

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Corresponding Source in the same
way through the same place at no
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```
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1.213 file 5.34

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```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

```

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c)
$(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules
%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

```

End FreeBSD-specific setup

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1.214 gnutls 3.6.4

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Version 2.1, February 1999

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Any executables

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#####

Constant-time SSSE3 AES core implementation.

version 0.1

##

By Mike Hamburg (Stanford University), 2009

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For details see https://shiftright.org/papers/vector_aes/ and

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Version 3, 29 June 2007

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1.216 elfutils 0.175

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1.219 libcheck 0.9.14

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1.220 bsd-mailx 12.5-5

1.220.1 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 retrieve 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-libblockfile-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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OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
OF
SUCH DAMAGE.

9

```

etc
usr/bin
usr/share/bsd-mailx
usr/share/man/man1
#!/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: Oops, 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 `strncpy&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 Reply-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 libblockfile 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 dependency 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 Slotman <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 opensbd 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.

1.221 jemalloc 5.2.1

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1.222 bc 1.07

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)

Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)

Andrew Lumsdaine ()

Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)

Beman Dawes (bdawes@acm.org)

Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)

Brian Osman (osman -at- vvisions.com) (See CVS log)

Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)

Bruno da Silva de Oliveira (bruno - at - esss.com.br)

Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)

Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)

Dan Gohman (djk

-at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)

Dan Nuffer (dan -at- nuffer.name)

Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)

Daniel Nuffer (dan -at- nuffer.name)

Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)

Daryle Walker (darylew - at - hotmail.com)

Dave Abrahams (dave@boost-consulting.com)

Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)

David Abrahams (dave@boost-consulting.com)

Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)

Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)

Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando
Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssaue (Gottfried.Ganssaue -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganaue (Gottfried.Ganssaue -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssaue)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv
Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcnv.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrv (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)

Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (sccleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve
Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
The Trustees of Indiana University ()
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)
Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)
Thorsten Ottosen (nesotto - at - cs.auc.dk)
Toon Knapen (toon dot knapen - at - fft.be)
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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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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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////

[#mpl]

MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

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

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

1.226 junit 4.1.jar.pack

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1.227 cyrus-sasl 2.1.26-21.el7

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* Tim Martin

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1.228 libteam 1.17-7.el7_2

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1.229 mtd-utils 2.0.2

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1.230 hunspell 1.7.0

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* working on parallel development tracks to help
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1.232 curl 7.18.2

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=====

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1.233 jfreechart 1.0.9.jar.pack

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(1)

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distribute

the object code for the work under the terms of Section 6.

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1.238 sed 4.2.2 5.e|7

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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,

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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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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=====

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1.246 net-tools 2.0 0.17.20131004git.el7

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1.248 acl 2.2.51 12.e17

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1.249 pam 1.1.8 18.el7

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1.251 nspr 4.13.1 1.0.e17_3

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1.259 open-ldap 2.4.44 5.e17

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1.260 glib 2.50.3 3.e17

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

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

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

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.xml,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>

```

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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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1.264 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 from 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.xml,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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```

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```


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

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

</xsl:stylesheet>

<!--
```

- Local variables:

- mode: sgml

- End:

-->

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1.265 nss 3.28.4 8.e17

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Ajay Joshi <jaj@google.com>

Balzs Dn <balazs.dan@gmail.com>

Bharat Mediratta <bharat@menalto.com>

Chandler Carruth <chandlerc@google.com>

Chris Prince <cprince@google.com>

Chris Taylor <taylorc@google.com>

Dan Egnor <egnor@google.com>

Eric Roman <eroman@chromium.org>

Hady Zalek <hady.zalek@gmail.com>

Jeffrey Yasskin <jyasskin@google.com>

Ji Sigursson <joi@google.com>

Keir Mierle <mierle@gmail.com>

Keith Ray <keith.ray@gmail.com>

Kenton Varda <kenton@google.com>

Manuel Klimek <klimek@google.com>

Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@google.com>
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Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
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* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino

<jmmv@users.sourceforge.net>

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

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.xml,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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1.267 curl 7.28.1

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=====

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1.268 busybox 1.29.2

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1.269 curl 7.43.0

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1.270 strace 4.12

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1.271 expat 2.2.0

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1.273 libcap 2.22

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1.281 libatasmart 0.18-3

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1.282 libconfig 1.7.2

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Upstream-Name: ls-config

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Files: *

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@c

@c %**start of header

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

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The modified work must itself be a software library.

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

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

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

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

@end enumerate

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

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

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

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You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do

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

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

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

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

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

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

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

However, linking a ``work that uses the Library'' with the Library creates

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

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

to use the modified definitions.)

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

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

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

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

@end enumerate

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

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

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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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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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.

@end enumerate

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@center END OF TERMS AND CONDITIONS

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@page

@center How to Apply These Terms to Your New Libraries

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

@format

@t{

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

Copyright (C) <year> <name of author>

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

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

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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.

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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

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

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

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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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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>

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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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```

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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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```

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

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(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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#

.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

```
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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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.

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- a) Accompany the

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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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1.288 shim 10.6

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@end smallexample

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```
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for details type @samp{show w}.
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```

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1.293 rsyslog 8.37.0

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1.297 pango 1.6.0

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1.298 fcgi 2.4.0-25.e17

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1.299 xorg-server 1.14.2

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1.301 libusb 1.0.8

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1.302 sblim-sfcb 1.3.3-040609

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1.303 libunwind 1.2.1

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```
libfreedreno_layout = static_library(  
    'freedreno_layout',  
    [  
        'fd6_layout.c',  
        'freedreno_layout.c',  
    ],  
    include_directories : [inc_freedreno, inc_common],  
    c_args : [c_vis_args, no_override_init_args],  
    cpp_args : [cpp_vis_args],  
    dependencies : idep_nir_headers,  
    build_by_default : false,  
)
```

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Version 2, June 1991

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

Preamble

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

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

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

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect

transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the

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

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

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

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

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

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

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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.

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that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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1.311 libxext 1.3.1

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1.313 libxaw 1.0.11

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1.315 libiniparser 4.0

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1.316 libx11 1.6.4

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1.317 tiny-xml 0.9.5-5.3.el6

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1.318 selinux 2.107-1.el7_6

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Website: <http://github.com/cjohansen/sinon-qunit/>
License: BSD 3-clause "New" or "Revised" License
<OWNER> = Christian Johansen
<ORGANIZATION> = Christian Johansen
<YEAR> = 2010-2011

Component: Sinon.JS 1.14.1
Licensor: Christian Johansen
Website: <http://github.com/cjohansen/Sinon.JS/>
License: BSD 3-clause "New" or "Revised" License
<OWNER> = Christian Johansen
<ORGANIZATION> = Christian Johansen
<YEAR> = 2010-2014

Component: Sinon.JS 4.4.6
Licensor: Christian Johansen
Website: <http://github.com/cjohansen/Sinon.JS/>
License: BSD 3-clause "New" or "Revised" License
<OWNER> = Christian Johansen
<ORGANIZATION> = Christian Johansen
<YEAR> = 2010-2017

Component: String startsWith Method 0.2.0

Licensors: Mathias Bynens
Website: <https://github.com/mathiasbynens/String.prototype.startsWith>
License: MIT License
<year> = unspecified
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Component: String endsWith Method 0.2.0
Licensors: Mathias Bynens
Website: <https://github.com/mathiasbynens/String.prototype.endsWith>
License: MIT License
<year> = unspecified
<copyright holders> = Mathias Bynens <<https://mathiasbynens.be/>>

Component: String includes Method 1.0.0
Licensors: Mathias Bynens
Website: <https://github.com/mathiasbynens/String.prototype.includes>
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Component: String repeat Method 0.2.0
Licensors: Mathias Bynens
Website: <https://github.com/mathiasbynens/String.prototype.repeat>
License: MIT License
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Component: String padStart Method 1.0.1
Licensors: Behnam Mohammadi ()
Website: <https://github.com/uxitten/polyfill>
License: MIT License
<year> = 2017
<copyright holders> = Behnam Mohammadi ()

Component: String padEnd
Method 1.0.1
Licensors: Behnam Mohammadi ()
Website: <https://github.com/uxitten/polyfill>
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<year> = 2017
<copyright holders> = Behnam Mohammadi ()

Component: SwipeView 1.0
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Website: <http://github.com/cubiq/SwipeView/>
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Component: TDOP

Licensors: Douglas Crockford

Website: <https://github.com/douglascrockford/TDOP>

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Component: Unicode Common Locale Data Repository

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Website: <http://cldr.unicode.org/>

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Component: unorm 1.3.3

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Website: <http://github.com/walling/unorm/>

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Component: URI.js 1.19.1

Licensors: Rodney Rehm

Website: <http://github.com/medialize/URI.js/>

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Component: vkBeautify 0.99.00.beta

Licensors: Vadim Kiryukhin

Website: <http://www.eslinstructor.net/vkbeautify/>

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Component: jalaali-js

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Licensor: Michael Mclaughlin
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mnater/Hyphenopoly 2.4.0
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#

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#

.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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1.320 openssl-fipscanister 1.35-9.el6

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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+$/)) { }
open STDOUT,">$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:
.asmfnc
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, CRYPTOGRAMS by <appro\@openssl.org>"
.align 4
—

print $code;
close STDOUT;

```

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```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-c64x-large.pl

```

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```

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsa_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips_rsa_sign.c
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips_ecdsa_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dh/fips_dh_lib.c

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```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/ec/ec_mult.c

```

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsa_selftest.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/hmac/fips_hmac_selftest.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_util.h

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_post.c

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/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_auth.h

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips.h

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_rand_lib.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_locl.h

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- * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_x931.c
- * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips_rsavtest.c
- *
- */opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/cmac/fips_cmactest.c
- * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/hmac/fips_hmactest.c
- * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips_rsastest.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_pss.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_x931p.c

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```
#define FIPS_AUTH_KEY "etaonrishdlcupfm"  
#define FIPS_AUTH_CRYPTOFFICER "7f92562d409c903322c0f94a1188ae8178339a4f"  
#define FIPS_AUTH_CRYPTouser "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"
```

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_auth.in

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*
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/sha/fips_standalone_sha1.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/sha/fips_sha1_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_rand_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/aes/fips_aes_selftest.c
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/des/fips_des_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_rand.h

```

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

```

#!/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/.
# =====
#
# 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;
    $LRSIZE = 2*$SIZE_T;
    $STU = "stdu";
    $POP = "ld";
    $PUSH = "std";
    $UCMP = "cmpld";
    $SHL = "sldi";
} elsif ($flavour =~ /32/) {
    $SIZE_T = 4;
    $LRSIZE = $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
mtr r0
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.asciz "AES for PowerISA 2.07, CRYPTOGRAMS 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 r0,0xffff
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 $stage,$southead,$outtail,$outmask
vmr $southead,$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 $stage,$southead,$outtail,$outmask
vmr $southead,$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 $stage,$southead,$outtail,$outmask
vmr $southead,$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 $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out

addi $inp,$out,15 # 15 is not typo
addi $out,$out,0x50

li $rounds,10
b $done

.align 4
L192:
lvx $tmp,0,$inp
li $cnt,4
vperm $outtail,$in0,$in0,$outperm #
rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$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 $stage,$southead,$outtail,$outmask
vmr $southead,$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 $stage,$southead,$outtail,$outmask
vmr $southead,$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 $stage,$southead,$outtail,$outmask
vmr $southead,$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
mtr 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
    btlr-

    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 $inout,$southead,$tmp,$outmask
vmr $southead,$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
?lvs1 $outperm,0,$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
_esp8_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

```

cmlwi $len,32 # switch($len)
blt Lcbc_dec8x_one
nop
beq Lcbc_dec8x_two
cmlwi $len,64
blt Lcbc_dec8x_three
nop
beq Lcbc_dec8x_four
cmlwi $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
btlr-

lis r0,0xffff
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

```

```
?lvs1 $keyperm,0,$key # prepare for unaligned key
```

```
lwz $rounds,240($key)
```

```
lvsl $inpperm,0,r11 # prepare for unaligned load
```

```
lvx $sinptail,0,$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 _aes8_ctr32_encrypt8x
```

```
?lvsl $outperm,0,$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 $dat,$sinptail
```

```
lvx $sinptail,0,$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,$four)=$(southead,$soutperm,$soutmask);
```

```
$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?vspltsb $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,$sone # counter values ...
vcipherlast $in2,$out2,$in2
vadduwm $out2,$ivec,$stwo
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 $tailen = $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
bltr-

```

```

lis r0,0xffff
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
lvsl $inpperm,0,r11 # prepare for unaligned load
lvx $sinout,0,$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 $sinptail,0,$inp
addi $inp,$inp,16

?vsl $keyperm,0,$key1 #
prepare for unaligned key
lwz $rounds,240($key1)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16

```

```

vsllb $eighty7,$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 $tmp,$soutput,$soutput,$leperm
be?nop
le?stvx_u $tmp,0,$sout
be?stvx_u $soutput,0,$sout
addi $sout,$sout,16

subic. $len,$len,16
beq Lxts_enc_done

vmr $sinout,$sinptail
lvx $sinptail,0,$sinp
addi $sinp,$sinp,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 $tmp,$stweak,$seven #
next tweak value
vaddubm $stweak,$stweak,$stweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $stweak,$stweak,$tmp

vperm $sinout,$sinout,$sinptail,$sinpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $sinout,$sinout,$stweak
vxor $soutput,$soutput,$rndkey0 #
just in case $len<16
vxor $sinout,$sinout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16

mtctr $rounds
${UCMP}i $len,16
bge Loop_xts_enc

vxor $soutput,$soutput,$stweak
lvsr $sinpperm,0,$len # $sinpperm is no longer needed
vxor $sinptail,$sinptail,$sinptail # $sinptail is no longer needed
vspltisb $tmp,-1
vperm $sinptail,$sinptail,$tmp,$sinpperm
vsel $sinout,$sinout,$soutput,$sinptail

```

```

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:
mfspr 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
mfspr 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 $sinptail,$idx,$ivp
le?vxor $sinpperm,$sinpperm,$tmp
vperm $tweak,$tweak,$sinptail,$sinpperm

?lvs1 $keyperm,0,$key2 # prepare for unaligned key
lwz $rounds,240($key2)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16

neg r11,$inp
lvsl $sinpperm,0,r11 # prepare for unaligned load
lvx $sinout,0,$inp
addi $inp,$inp,15 # 15 is not typo
le?vxor $sinpperm,$sinpperm,$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 $sinptail,0,$inp
addi $inp,$inp,16

?lvs1 $keyperm,0,$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 $tmp,$soutput,$soutput,$leperm
be?nop
le?stvx_u $tmp,0,$sout
be?stvx_u $soutput,0,$sout
addi $sout,$sout,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 $tmp,$stweak,$seven #
next tweak value
vaddubm $stweak,$stweak,$stweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $stweak,$stweak,$tmp

vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$stweak
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 $tmp,$stweak,$seven # next tweak value
vaddubm $stweak1,$stweak,$stweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $stweak1,$stweak1,$tmp

subi $inp,$inp,16
add $inp,$inp,$len

vxor $inout,$inout,$stweak # :-(
vxor $inout,$inout,$stweak1 # :-)

```

```

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 $tailen=$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
v xor $tweak,$tweak,$tmp
vcipher $out2,$out2,v29
vcipher $out3,$out3,v29
v xor $in4,$twk4,v31
vsrab $tmp,$tweak,$seven # next tweak value
v xor $twk4,$tweak,$rndkey0
vcipher $out4,$out4,v29
vcipher $out5,$out5,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
v addubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15

vcipher $out0,$out0,v30
vcipher $out1,$out1,v30
v and $tmp,$tmp,$eighty7
vcipher $out2,$out2,v30
vcipher $out3,$out3,v30
v xor $tweak,$tweak,$tmp
vcipher $out4,$out4,v30
vcipher $out5,$out5,v30
v xor $in5,$twk5,v31
vsrab $tmp,$tweak,$seven # next tweak value
v xor $twk5,$tweak,$rndkey0

vcipherlast $out0,$out0,$in0
lvx_u $in0,$x00,$inp # load next input
block
v addubm $tweak,$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
v and $tmp,$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
v xor $tweak,$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
_esp8_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 $inperm,r0,$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
_esp8_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,$tailen
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
v_xor $out2,$in2,$twk2
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
v_xor $out3,$in3,$twk3
le?vperm $out5,$out5,$out5,$leperm
stvx_u $out4,$x40,$out
v_xor $out4,$in4,$twk4
stvx_u $out5,$x50,$out
v_xor $out5,$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:
v_xor $out0,$in1,$twk0
v_xor $out1,$in2,$twk1
v_xor $out2,$in3,$twk2
v_xor $out3,$in4,$twk3
v_xor $out4,$in5,$twk4

bl _aesp8_xts_dec5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk5 #
unused tweak
v_xor $twk1,$tweak,$rndkey0
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
v_xor $out0,$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 $out,$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 $inperm,0,$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,$in0,$inperm
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,$out1,$inperm
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
_esp8_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 _esp8_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
} } } }

```

```

my $const=1;
foreach(split("\n",$code)) {
    s\[^\[^\]*\]/eval($1)/geo;

# constants table endian-specific conversion
if ($const && m\.(long|byte)\s+(.)\s+(\?[a-z]*)$/o) {
    my $conv=$3;
    my @bytes=();

    # convert to endian-agnostic format
    if ($1 eq "long") {
        foreach (split(/,s*/, $2))
        {
            my $1 = /^0/?oct:int;
            push @bytes,($1>>24)&0xff,($1>>16)&0xff,($1>>8)&0xff,$1&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;
}
$const=0 if (m/Lconst:/o); # end of table

# instructions prefixed with '?' are endian-specific and need
# to be adjusted accordingly...
if ($flavour =~ /le$/o) { # little-endian
    s/le\?//o or
    s/be\?/#be#/o or
    s/\?lvsr/lvsl/o or
    s/\?lvsl/lvsr/o or
    s/\?(vperm\s+v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+)/$1$3$2$4/o or
    s/\?(vsldoi\s+v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+\,s*)([0-9]+)/$1$3$2 16-$4/o or
    s/\?(vspltw\s+v[0-9]+\,s*)(v[0-9]+\,s*)([0-9]+)/$1$2 3-$3/o;
}
else { # big-endian
    s/le\?/#le#/o or

```

```
s/be\?//o or
s\^?([a-z]+)/$1/o;
}

print $_, "\n";
}

close STDOUT;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesp8-ppc.pl
```

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*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rand/rand_lcl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_exp2.c
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```

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```

#!/usr/bin/env perl
#
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# =====
#
# 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;
    $LRSIZE=2*$SIZE_T;
    $STU="std";
    $POP="ld";
    $PUSH="std";
    $UCMP="cmpld";
    $SHRI="srdi";
} elsif ($flavour =~ /32/) {
    $SIZE_T=4;
    $LRSIZE=$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

mvspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,2,0
.long 0
.size .gcm_init_p8,-.gcm_init_p8
}

```

```

$code.=<<____;
.globl .gcm_gmult_p8
.align 5
.gcm_gmult_p8:
lis r0,0xffff8
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

mfspr 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 $X1,0,$Xip #
load Xi

lvx_u $H1,r8,$Htbl # load pre-computed table
li r8,0x40
le?lvsl $lemask,r0,r0
lvx_u $H, r9,$Htbl
li r9,0x50
le?vspltsb $t0,0x07
lvx_u $Hh,r10,$Htbl
li r10,0x60
le?vxor $lemask,$lemask,$t0
lvx_u $xC2,0,$Htbl
le?vperm $X1,$X1,$X1,$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,$X1
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 $X1,$IN,$H2l # H^2.loXi.lo
vpmsumd $X1l,$IN1,$H1 # 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 $X1,$X1,$X1l
vxor $Xm,$Xm,$Xm1

vpmsumd $t2,$X1,$xC2 # 1st reduction phase

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xh,$Xh,$Xh1
vxor $X1,$X1,$t0
vxor $Xh,$Xh,$t1

vsldoi $X1,$X1,$X1,8
vxor $X1,$X1,$t2
lvx_u $IN,r8,$inp
addi $inp,$inp,32

vsldoi $t1,$X1,$X1,8 # 2nd reduction phase
vpmsumd $X1,$X1,$xC2
le?vperm $IN,$IN,$IN,$lemask
vxor $t1,$t1,$Xh
vxor $IN,$IN,$t1
vxor $IN,$IN,$X1
$UCMP r9,$inp
bgt Loop_2x # done yet?

cmplwi $len,0
bne Leven

```

Lshort:

```

vpmsumd $X1,$IN,$Hl # H.loXi.lo
vpmsumd $Xm,$IN,$H # H.hiXi.lo+H.loXi.hi
vpmsumd $Xh,$IN,$Hh # H.hiXi.hi

```

```
vpmsumd $t2,$X1,$xC2 # 1st reduction phase
```

```
vsldoi $t0,$Xm,$zero,8  
vsldoi $t1,$zero,$Xm,8  
vxor $X1,$X1,$t0  
vxor $Xh,$Xh,$t1
```

```
vsldoi $X1,$X1,$X1,8  
vxor $X1,$X1,$t2
```

```
vsldoi $t1,$X1,$X1,8 #  
2nd reduction phase  
vpmsumd $X1,$X1,$xC2  
vxor $t1,$t1,$Xh
```

Leven:

```
vxor $X1,$X1,$t1  
le?vperm $X1,$X1,$X1,$lemask  
stvx_u $X1,0,$Xip # write out Xi
```

```
mtspr 256,$vrsave  
blr  
.long 0  
.byte 0,12,0x14,0,0,0,4,0  
.long 0
```

```
_____  
{  
my ($X13,$Xm2,$IN2,$H31,$H3,$H3h,  
    $Xh3,$Xm3,$IN3,$H41,$H4,$H4h) = map("v$_",(20..31));  
my $IN0=$IN;  
my ($H211,$H21h,$loperm,$hiperm) = ($H1,$Hh,$H21,$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 $X1,$X1,$X13
vxor $Xm,$Xm,$Xm3
vxor $Xh,$Xh,$Xh3

vperm $t0,$IN2,$IN3,$loperm
vperm $t1,$IN2,$IN3,$hiperm

vpmsumd $t2,$X1,$xC2 # 1st reduction phase
vpmsumd $X13,$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 $X1,$X1,$t0
vxor $Xh,$Xh,$t1

vsldoi $X1,$X1,$X1,8
vxor $X1,$X1,$t2

vsldoi $t1,$X1,$X1,8 # 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 $X1,$X1,$xC2

vxor $X13,$X13,$X11
vxor $Xh3,$Xh3,$Xh1
vxor $Xh,$Xh,$IN0
vxor $Xm2,$Xm2,$Xm1
vxor $Xh,$Xh,$t1
vxor $Xm3,$Xm3,$Xm2
vxor $Xh,$Xh,$X1
bge Loop_4x

Ltail_4x:
vpmsumd $X1,$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 $X1,$X1,$X13
vxor $Xm,$Xm,$Xm3

vpmsumd $t2,$X1,$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,$H2l1 # H^2.loXi+1.lo+H.loXi+2.lo
vpmsumd $Xh3,$t1,$H2lh # 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, $H2l1 # H.loXi+1.lo
vpmsumd $Xm3,$IN1,$H # H.hiXi+1.lo+H.loXi+2.hi
vpmsumd $Xh3,$t1, $H2lh # 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, CRYPTOGRAMS 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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghashp8-ppc.pl
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/aes/fips_aesavs.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
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 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/ui/ui_locl.h
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/mem_clr.c
 *
 /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/symhacks.h

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/err/err.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
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2.0.16/crypto/uid.c  
*/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/o_time.h
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2.0.16/crypto/ec/ecp_smpl.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/cfb128.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/ctr128.c

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*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/thr_id.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cryptlib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/crypto.h

```

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

```

#!/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+$/)) { }
open STDOUT,">$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,0x47edaae6, 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 0xbf9a3f7,0xb2c67915, 0xc67178f2,0xe372532b
.uword 0xca273ece,0xea26619c,
0xd186b8c7,0x21c0c207
.uword 0xeada7dd6,0xcde0eb1e, 0xf57d4f7f,0xee6ed178
.uword 0x06f067aa,0x72176fba, 0x0a637dc5,0xa2c898a6
.uword 0x113f9804,0xbf90dae, 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, CRYPTOGRAMS by <appro@openssl.org>"
.align 4
```

—

```
print $code;
close STDOUT;
```

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```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-c64x.pl
```

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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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```

#!/usr/bin/env perl

```

```

#

```

```

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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+$/)) { }
open STDOUT,">$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:
.asmfnc
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;

```

Found in
path(s):

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-c64xplus.pl

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips_lck.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/aes/fips_gcmtest.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_hmac.c

*

/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_ctr.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_rand_lcl.h

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_selftest.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbgvs.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdh/fips_ecdhvs.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips_ecdsavs.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_hash.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dh/fips_dhvs.c

*

/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_rand.c

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```

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/ecdh/ech_locl.h

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*

/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/asn1/asn1t.h

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```

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2.0.16/crypto/o_str.h

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```

/*.*>, <crypto/*/*.*>, <ssl/*.*>, <apps/*.*>)

```

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") {
        $src{$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 /^#\s*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/g; #(*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 $name)\n";
++$serrcount;
}
$assigned{$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 $name)\n";
++$serrcount;
}
$fassigned{$lib}
.= "$code:";
if($code > $fmax{$lib}) {
$fmax{$lib} = $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 $config.\n";
++$serrcount;
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 $skip{$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 $src{$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 $src{$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,
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" *\n",
" */\n",
"\n",
"#ifndef HEADER_{lib}_ERR_H\n",
"#define HEADER_{lib}_ERR_H

```

```

"\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") {
$assigned{$lib} =~ m/^([:^:]*)/;
$findcode = $1;
if (!defined($findcode)) {
$findcode = $fmax{$lib};
}
while ($assigned{$lib} =~ m/:$findcode:/) {
$findcode++;
}
}
}

```

```

$fcodes{$i} = $findcode;
$assigned{$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,"<$file")) {
    while (<IN>) {
        if (/^b${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,">$file") || die "Can't open $file for writing";

print OUT <<"EOF";
/* $file */
/* =====
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 */

/* 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 OPENSSSL_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_funcs[]=
{
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)
{
#ifdef OPENSSSL_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 OPENSSSL_NO_ERR
    ERR_load_strings(${lib}_lib_error_code,${lib}_str_funcs);
    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 (${lib}_error_init == 0)
    {
#ifndef OPENSSSL_NO_ERR
        ERR_unload_strings(${lib}_lib_error_code,${lib}_str_funcs);
        ERR_unload_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif
    }

#ifdef ${lib}_LIB_NAME
        ERR_unload_strings(0,${lib}_lib_name);
#endif
    }
}

${staticloader}void ERR_${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;
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
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2.0.16/crypto/rsa/rsa_pk1.c
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_recp.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/sha_locl.h

```

```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/evp/m_sha1.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dsa/dsa_key.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/lhash/lhash.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/stack/stack.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/evp/m_dss1.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/pc_des.h
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/cryptlib.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/dsa/fips_dsatest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/e_os.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/buffer/buffer.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/sha.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/ncbc_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rsa/rsa.h
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/set_key.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/cfb_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/asn1/asn1.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_mul.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/hmac/hmac.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/des_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/ofb64ede.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_shift.c
*

```

```

/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/des_ver.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dh/dh_check.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_asm.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/hmac/hmac.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_div.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rsa/rsa_x931g.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/util/add_cr.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_prime.h
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rsa/rsa_crpt.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/utl/fips_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/evp/m_dss.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/asn1/asn1_mac.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/objects/objects.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/cfb64enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dsa/dsa_gen.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bio/bio.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dh/dh.h
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_word.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/cfb64ede.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dh/dh_key.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/evp/e_des3.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/buffer/buf_str.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/ecb3_enc.c

```



```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dsa/dsa_ossl.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rsa/rsa_gen.c
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/spr.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/fcrypt_b.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/evp/e_null.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/evp/evp.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/sha1dgst.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rand/rand.h

```

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

```

#!/usr/bin/env perl
#
# =====
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# =====
#
# SHA512 for C64x+.
#
# January 2012
#
# Performance is 19 cycles per processed byte. Compared to block
# transform function from sha512.c compiled with cl6x with -mv6400+
# -o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
# Loop unroll won't make it, this implementation, any faster, because
# it's effectively dominated by SHRU||SHL pairs and you can't schedule
# more of them.
#
# !!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve
# it and for own well-being
# zero it upon entry.

while (($output=shift) && ($output!~/^[w\W-]*\.[w+$/)) { }
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6");      # arguments

```

```

$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi, $T2hi)= ("A6","A7");
($T1lo,$T1carry,$T2lo,$T2carry)=("B6","B7","B8","B9");
($Khi,$Klo)=("A9","A8");
($MAJhi,$MAJlo)=($T2hi,$T2lo);
($t1hi,$t1lo)=($Khi,"B2");
$CTXB=$t1lo;

($Xihi,$Xilo)=("A5","B5"); # circular/ring buffer

$code.=<<____;
.text

.asg B3,RA
.asg A15,FP
.asg B15,SP

.if .BIG_ENDIAN
.asg $Khi,KHI
.asg $Klo,KLO
.else
.asg $Khi,KLO
.asg $Klo,KHI
.endif

.global _sha512_block_data_order
_sha512_block_data_order:
.asmfnc
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 0x4d2c6dfe,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 0xeadada7dd6,0xcde0eb1e, 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+, CRYPTOGRAMS by <appro@openssl.org>"
.align 4
```

```
print $code;
close STDOUT;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-c64xplus.pl
```

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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
# CRYPTOGRAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptograms/.
# =====
```

```
# 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;
    $LRSIZE = 2*$SIZE_T;
    $UCMP = "cimpld";
    $STU = "stdu";
    $POP = "ld";
    $PUSH = "std";
} elsif ($flavour =~ /32/) {
```

```

$SIZE_T=4;
$LRSAVE=$SIZE_T;
$UCMP="cmlpw";
$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:
subfc $t1,$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, CRYPTOGRAMS by <appro@fy.chalmers.se>"
—
```

```
$code =~ s/^(.*)$/eval $1/gem;
print $code;
close STDOUT;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-ppc.pl
```

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```
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```

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```

```
*
```

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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).
*
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/fips_err.h

```

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*

/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_prime.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_rand.c

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips_md.c

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- * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/aes_locl.h
- * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/aes.h
- * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/aes_ecb.c

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tlhelp32.h - Include file for Tool help functions.

Written by Mumit Khan <khan@nanotech.wisc.edu>

This file is part of a free library for the Win32 API.

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while ((\$output=shift) && (\$output!~/^[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 OPENSSSL_atomic_add,_OPENSSSL_atomic_add
.asg OPENSSSL_wipe_cpu,_OPENSSSL_wipe_cpu
.asg OPENSSSL_instrument_bus,_OPENSSSL_instrument_bus
.asg OPENSSSL_instrument_bus2,_OPENSSSL_instrument_bus2
.endif
```

```
.asg B3,RA
.asg 0x01AC0000,TIMER_BASE ; Timer 2
```

```
.global _OPENSSSL_rdtsc
_OPENSSSL_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 _OPENSSSL_cleanse
_OPENSSSL_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
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 ; reassign sizeof(output)
|| MVK 0x00004030,A3
|| MVKL TIMER_BASE,B16
MV A4,B4 ; reassign output
|| MVK 0,A4 ; return value
|| MVK 1,A1
|| MVKH 0x01840000,A3 ; L1DWIBAR
|| MVKH TIMER_BASE,B16

LDW *B16[2],B8 ; collect 1st tick
|| MVK 0x00004010,A5
NOP 4
MV B8,B9 ; lasttick = tick
|| MVK 0,B7 ; lastdiff = 0
|| MVKH 0x01840000,A5 ; L2WIBAR
CLFLUSH A3,B4,A1 ; write-back and invalidate L1D line
CLFLUSH A5,B4,A1 ; write-back and invalidate L2 line
LDW *B4,B5
NOP 4
ADD B7,B5,B5
STW B5,*B4

LDW *B16[2],B8 ;
collect 1st diff
NOP 4
SUB B8,B9,B7 ; lastdiff = tick - lasttick
|| MV B8,B9 ; lasttick = tick
|| SUB B0,1,B0
bus_loop2?:
CLFLUSH A3,B4,A1 ; write-back and invalidate L1D line
CLFLUSH A5,B4,A1 ; write-back and invalidate L2 line
LDW *B4,B5
NOP 4
ADD B7,B5,B5
STW B5,*B4 ; [!B1] is removed to flatten samples
|| [!B0] BNOP bus_loop2_done?,2
|| SUB B0,1,B0
LDW *B16[2],B8
NOP 4
SUB B8,B9,B8
|| MV B8,B9

```



```
CMPEQ B8,B7,B2
|| MV B8,B7
[!B2] ADDAW B4,1,B4
|[!B2] ADDK 1,A4
CMPEQ A4,A6,A2
[!A2] BNOP bus_loop2?,5
```

```
bus_loop2_done?:
BNOP RA,5
.endasmfunc
```

```
.if __TI_EABI__
.sect ".init_array"
.else
.sect ".pinit"
.endif
.align 4
.long _OPENSSL_rdtsc ; auto-start timer
```

```
print $code;
close STDOUT;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/c64xcpid.pl
```

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```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/modexp512-x86_64.pl
```

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```

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* =====
*/

```

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```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips_mem.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cmac/cmac.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips_err.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cmac/cmac.c
```

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```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/armv4-gf2m.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghashv8-armx.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86_64-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-586.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-armv8.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-parisc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-x86_64.pl
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/sparcv9-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/ppc-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-alpha.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-sparcv9a.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-sha1-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-586.pl
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-thumb.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
```

2.0.16/crypto/sha/asm/sha512-parisc.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha512-sparcv9.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha512p8-ppc.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha256-armv4.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/bn/asm/s390x-mont.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha1-armv8.pl
 *
 /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/modes/asm/ghash-x86.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha1-sparcv9.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha512-armv4.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/modes/asm/ghash-sparcv9.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/aes/asm/aes-c64xplus.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha1-c64x.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/bn/asm/x86_64-gf2m.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/aes/asm/aes-armv4.pl
 *
 /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha512-ppc.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/aes/asm/aesni-x86.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/bn/asm/mips-mont.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha512-mips.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/bn/asm/parisc-mont.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha256-c64xplus.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/aes/asm/aes-c64x.pl
 *
 /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha1-s390x.pl
 * /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
 2.0.16/crypto/sha/asm/sha512-ia64.pl

```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/x86_64-mont5.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-s390x.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghash-s390x.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/x86-gf2m.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/s390x-gf2m.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha256-c64x.pl
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghash-alpha.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-mips.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-586.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/sparcv9a-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-ia64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/via-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-586.pl
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-parisc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha512-s390x.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/alpha-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/ia64-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/armv4-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-mips.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aesv8-armx.pl
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-ppc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-

```

2.0.16/crypto/bn/asm/ppc64-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghash-ia64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-parisc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-c64xplus.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-armv4-large.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghash-armv4.pl
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*  
* Contributed by Steve Marquess.  
*  
*/
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/fips_test_suite.c
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2.0.16/crypto/sha/sha512.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/sha256.c
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* =====

*
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*
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/ec/ec2_mult.c

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```

#!/usr/bin/env perl
#
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# =====
#
# February 2012
#

```

```

# The module implements bn_GF2m_mul_2x2 polynomial multiplication
# used in bn_gf2m.c. It's kind of low-hanging mechanical port from
# C for the time being... The subroutine runs in 37 cycles, which is
# 4.5x faster than compiler-generated code. Though comparison is
# totally unfair, because this module utilizes Galois Field Multiply
# instruction.

```

```

while (($output=shift) && ($output!~/^[w\|-]*\.\w+$/)) { }
open STDOUT,">$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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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/c64xplus-gf2m.pl

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/des.h

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/des_locl.h

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/objects/objects.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/objects/obj_dat.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/objects/obj_mac.h

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/ecdsa/fips_ecdsa_sign.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/dsa/fips_dsa_sign.c

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1.321 xterm 330

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1.323 libxcursor 1.1.13

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1.325 openssl 1.0.1j

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1.327 netperf 2.6.0

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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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Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
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Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
Christophe Varoqui <christophe dot varoqui at free dot fr>,
Michael Weller <eowmob at exp-math dot uni-essen dot de>,
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 */
```

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```
/*
*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
* Copyright (C) 1995, Board of Trustees of the University of Illinois
*
*****
*
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*
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/*

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 =====

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

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

```
*/  
<?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" />  
<!--  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X  
This file is generated from xml source: DO NOT EDIT  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X  
-->  
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>  
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />  
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No  
Sidebar - Default font size" />  
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"  
type="text/css" href="/style/css/prettify.css"  
/>  
<script src="/style/scripts/prettify.min.js" type="text/javascript">  
</script>  
  
<link href="/images/favicon.ico" rel="shortcut icon" /></head>  
<body id="manual-page" class="no-sidebar"><div id="page-header">  
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a  
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a  
href="/sitemap.html">Sitemap</a></p>  
<p class="apache">Apache HTTP Server Version 2.4</p>  
</div>  
<div class="up"><a href="/"></a></div>  
<div id="path">  
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a  
href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="/">Version 2.4</a></div><div id="page-  
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>  
<div class="toplang">  
<p><span>Available  
Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;en&nbsp;en&nbsp;en</a></p>  
</div>  
  
<p class="centered">Apache License<br />  
Version 2.0, January 2004<br />  
<a href="http://www.apache.org/licenses/">http://www.apache.org/licenses/</a><br /><br />
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```
<div class="example"><pre>Copyright [yyyy] [name of copyright owner]
```

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

class="warning">Notice:<br

```
<script type="text/javascript"><!--><![CDATA[//><!--
```

```
var comments_shortcode = 'httpd';
```

```
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
```

```
(function(w, d) {
```

```
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
```

```
    d.write('<div id="comments_thread"></div>');
```

```
    var s = d.createElement('script');
```

```
    s.type = 'text/javascript';
```

```
    s.async = true;
```

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

```
comments_identifier;
```

```
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
```

```
  }
```

```
  else {
```

```
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
```

```
  }
```

```
})(window, document);
//--><![></script></div><div id="footer">
<p class="apache">Copyright 2020 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--<!--><![CDATA[<!--<!--
if (typeof(prettyPrint) !== 'undefined') {
    prettyPrint();
}
--><![></script>
</body></html>
```

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1.332 e2fsprogs 1.44.3

1.332.1 Available under license :

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

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#

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

#

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

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic


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

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

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

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

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

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

```
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

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

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

```
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
```

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

```
clean::
```

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

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

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o
23-June-2007

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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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```
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for details.
```

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

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

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
Janet Head
Shivananda Hebbar
Hari Kanigeri
Tony Lindgren
Antonio Luna
Hari Nagalla
Nishanth Menon
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Vijay Pasam
Gilbert Pitney
Omar Ramirez Luna
Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather

lists

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers

* as needed. This means that data must always be copied to create

* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

* Fix is simple: make large buffers large enough to hold entire

* SDU, and leave <small_buffer_data> bytes empty at the start. Then

* copy small buffer contents to head of large buffer.

* Trick is to avoid fragmenting Linux, due to need for a lot of large

* buffers. This is done by 2 things:

* 1) skb->destructor / skb->atm.recycle_buffer

* combined, allow nicstar_free_rx_skb to be called to

* recycle large data buffers

* 2) skb_clone of received buffers

* See nicstar_free_rx_skb and linearize_buffer for implementation

* details.

*

*

*

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*

* M. Welsh, 6 July 1996

*

*

*/

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

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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END OF TERMS AND CONDITIONS

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The

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section 10

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(in case you are wondering where CyberLogin is, EON changed its login
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Andreas Oberitter
<obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

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

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

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

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If the program does terminal interaction, make it output a short

notice like this when it starts in an interactive mode:

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

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.340 libnl3 1.1.4-3.el7

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Version 2.1, February 1999

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1.341 openssl 1.0.2t

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Appendix: How to Apply These Terms to Your New Programs

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

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

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free  
Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
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along with this program; if not, write to the Free Software  
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
```

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may

be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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The End

1.342 libnl3 3.4.0

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Version 2.1, February 1999

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

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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

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The

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

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

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

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

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

1.344 libnl3 1.1.4 3.e17

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1.347 nfs-utils 1.3.0

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1.348 rsyslog 3.16

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1.349 util-md5 2.4.12

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```
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* Software Development Group  
* National Center for Supercomputing Applications  
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* httpd@ncsa.uiuc.edu  
*  
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*
*/

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 * @(#)queue.h 8.5 (Berkeley) 8/20/94
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*

* `stdio.c`

- * 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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1.353 numactl 2.0.12

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

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

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1.354 python-setuptools 20.10.1

1.354.1 Available under license :

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Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/setuptools.egg-info/PKG-INFO
- * /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/PKG-INFO

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Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/requirements.py
- * /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/__about__.py
- * /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/specifiers.py
- * /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/_compat.py
- * /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/markers.py
- * /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/utis.py
- *

- /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/_structures.py
- * /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/version.py
- * /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/__init__.py

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=====
Building and Distributing Packages with Setuptools
=====

`Setuptools` is a collection of enhancements to the Python `distutils` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using `setuptools` look to the user like ordinary Python packages based on the `distutils`. Your users don't need to install or even know about `setuptools` in order to use them, and you don't have to include the entire `setuptools` package in your distributions. By including just a single `bootstrap` module (a 12K .py file), your package will automatically download and install `setuptools` if the user is building your package from source and doesn't have a suitable version already installed.

```
.. _bootstrap
module: https://bootstrap.pypa.io/ez\_setup.py
```

Feature Highlights:

- * Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall` tool [<easy_install.html>](#), which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)
- * Create `Python Eggs` [<http://peak.telecommunity.com/DevCenter/PythonEggs>](http://peak.telecommunity.com/DevCenter/PythonEggs) - a single-file importable distribution format
- * Enhanced support for accessing data files hosted in zipped packages.
- * Automatically include all packages in your source tree, without listing them individually in `setup.py`
- * Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.
- * Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)
- * Transparent Pyrex support, so that your `setup.py` can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)
- * Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

- * PyPI upload support - upload your source distributions and eggs to PyPI
- * Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.
- * Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.
- * Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. `0.6 branch`: <http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06>

.. `Python SVN sandbox`: <http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev>

.. contents:: **Table of Contents**

.. `ez_setup.py`: `bootstrap module`

 Developer's Guide

Installing `setuptools`

=====

Please follow the `EasyInstall Installation Instructions` to install the current stable version of `setuptools`. In particular, be sure to read the section on `Custom Installation Locations` if you are installing anywhere other than Python's `site-packages` directory.

.. `EasyInstall Installation Instructions`: easy_install.html#installation-instructions

.. `Custom Installation Locations`: easy_install.html#custom-installation-locations

If you want the current in-development version of `setuptools`, you should first install a stable version, and then run::

```
ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

=====

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools::

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference`_ section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke::

```
python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],

    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],

    package_data = {
        # If any package contains *.txt or *.rst files, include them:
```

```

    ': ['*.txt', '*.rst'],
    # And include any *.msg
files found in the 'hello' package, too:
    'hello': ['*.msg'],
},

# metadata for upload to PyPI
author = "Me",
author_email = "me@example.com",
description = "This is an Example Package",
license = "PSF",
keywords = "hello world example examples",
url = "http://example.com/HelloWorld/", # project home page, if any

# could also include long_description, download_url, classifiers, etc.
)

```

In the sections that follow, we'll explain what most of these ``setup()`` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4`` or ``0.5``. Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``, which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like ``2.4-1`` and ``2.4p13`` are newer than ``2.4``, but are *older*

than `2.4.1` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include `alpha`, `beta`, `a`, `c`, `dev`, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, `2.4c1` and `2.4.c1` and `2.4-c1` all represent release candidate 1 of version `2.4`, and are treated as identical by `setuptools`.

In addition, there are three special prerelease tags that are treated as if they were the letter `c`: `pre`, `preview`, and `rc`. So, version `2.4rc1`, `2.4pre1` and `2.4preview1` are all the exact same version as `2.4c1`, and are treated as identical by `setuptools`.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (`-`). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version `2.4-r1263` might denote Subversion revision 1263 of a post-release patch of version `2.4`. Or you might use `2.4-20051127` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, `0.6a9.dev-r41475` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that `dev` is a pre-release tag, so this version is a *lower* version number than `0.6a9`, which would be the actual ninth alpha of release 0.6. But the `-r41475` is a post-release tag, so this version is *newer* than `0.6a9.dev`.

For the most part, `setuptools`' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

- * Don't stick adjoining pre-release tags together without a dot or number between them. Version `1.9adev` is the `adev` prerelease of `1.9`, *not* a development pre-release of `1.9a`. Use `.dev` instead, as in `1.9a.dev`, or separate the prerelease tags with a number, as in `1.9a0dev`. `1.9a.dev`, `1.9a0dev`, and even `1.9.a.dev` are identical versions from `setuptools`' point of view, so you can use whatever scheme you prefer.

- * If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `pkg_resources.parse_version()` function to compare different version numbers::

```

>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True

```

Once you've decided on a version numbering scheme for your project, you can have `setuptools` automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

- * ``Tagging and "Daily Build" or "Snapshot" Releases`_`
- * ``Managing "Continuous Releases" Using Subversion`_`
- * The ``egg_info`_` command

New and Changed ``setup()`` Keywords

=====

The following keyword arguments to ``setup()`` are added or changed by ``setuptools``. All of them are optional; you do not have to supply them unless you need the associated ``setuptools`` feature.

``include_package_data``

If set to ``True``, this tells ``setuptools`` to automatically include any data files it finds inside your package directories that are specified by your ``MANIFEST.in`` file. For more information, see the section below on ``Including Data Files`_`.

``exclude_package_data``

A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by ``include_package_data``. For a complete description and examples, see the section below on ``Including Data Files`_`.

``package_data``

A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on ``Including Data Files`_`. You do not need to use this option if you are using ``include_package_data``, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``

A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not

supplied,
the `bdist_egg` command will have to analyze all of your
project's contents for possible problems each time it builds an egg.

`install_requires`

A string or list of strings specifying what other distributions need to
be installed when this one is. See the section below on `Declaring
Dependencies` for details and examples of the format of this argument.

`entry_points`

A dictionary mapping entry point group names to strings or lists of strings
defining the entry points. Entry points are used to support dynamic
discovery of services or plugins provided by a project. See `Dynamic
Discovery of Services and Plugins` for details and examples of the format
of this argument. In addition, this keyword is used to support `Automatic
Script Creation`.

`extras_require`

A dictionary mapping names of "extras" (optional features of your project)
to strings or lists of strings specifying what other distributions must be
installed to
support those features. See the section below on `Declaring
Dependencies` for details and examples of the format of this argument.

`setup_requires`

A string or list of strings specifying what other distributions need to
be present in order for the `setup script` to run. `setuptools` will
attempt to obtain these (even going so far as to download them using
`EasyInstall`) before processing the rest of the setup script or commands.
This argument is needed if you are using distutils extensions as part of
your build process; for example, extensions that process `setup()` arguments
and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically
installed on the system where the setup script is being run. They are
simply downloaded to the `./eggs` directory if they're not locally available
already. If you want them to be installed, as well as being available
when the setup script

is run, you should add them to `install_requires`
`**and** setup_requires`.)

`dependency_links`

A list of strings naming URLs to be searched when satisfying dependencies.
These links will be used if needed to install packages specified by
`setup_requires` or `tests_require`. They will also be written into
the egg's metadata for use by tools like EasyInstall to use when installing
an `egg` file.

`namespace_packages`

A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's `zope` package is a namespace package, because subpackages like `zope.interface` and `zope.publisher` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace

package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

`test_suite`

A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test_` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test_` command below for more details.

`tests_require`

If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

`.. _test_loader:`

`test_loader`

If you would like to use a different way of finding tests to run than what `setuptools` normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader`

class. `Setuptools` will pass only one test "name" in the `names` argument: the value supplied for

the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `setuptools.command.test:ScanningLoader`. If you want to use the default `unittest` behavior, you can specify `unittest:TestLoader` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

`eager_resources`

A list of strings naming resources that should be extracted together, if

any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `/`-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

`use_2to3`

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See `:doc:python3` for more details.

`convert_2to3_doctests`

List of doctest source files that need to be converted with 2to3. See `:doc:python3` for more details.

`use_2to3_fixers`

A list of modules to search for additional fixers to be used during the 2to3 conversion. See `:doc:python3` for more details.

Using `find_packages()`

For simple projects, it's usually easy enough to manually add packages to the `packages` argument of `setup()`. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what `setuptools.find_packages()` is for.

`find_packages()` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a `src` or `lib` directory as the root of their source tree, and those projects would of course use `src` or `lib` as the first argument to `find_packages()`. (And such projects also need something like `package_dir = {'src'}` in their `setup()` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an `__init__.py` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, `find_packages(exclude=["*.tests"])` will exclude all packages whose last name part is `tests`. Or, `find_packages(exclude=["*.tests", "*.tests.*"])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this::

```
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

Automatic Script Creation

=====

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local

conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the `--m` option only works for actual `.py` files that aren't installed in a package.

`setuptools` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATHEXT` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this::

```
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ]
    }
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of `foo`, `bar`, and `baz` scripts will be installed that import `main_func` and `some_func` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `sys.exit()`, so you can return an errorlevel or message to print to stderr.

On Windows, a set of `foo.exe`, `bar.exe`, and `baz.exe` launchers are created, alongside a set of `foo.py`, `bar.py`, and `baz.pyw` files. The `.exe` wrappers find and execute the right version of Python to run the `.py` or `.pyw` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to `sys.path` when the script is run. For more information on "extras", see the section below on `Declaring Extras`_``.

For more information on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`_``.

"Eggsecutable" Scripts

Occasionally, there are situations where it's desirable to make an ``.egg`` file directly executable. You can do this by including an entry point such as the following::

```
setup(  
    # other arguments here...  
    entry_points = {  
        'setuptools.installation': [  
            'eggsecutable = my_package.some_module:main_func',  
        ]  
    }  
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls ``main_func()`` from ``my_package.some_module``. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with ``/bin/sh``, or by enabling execute permissions on the ``.egg`` file. For the executable prelude to run, the appropriate version of Python must be available via the ``PATH`` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a ``python2.3`` executable present in a directory on ``PATH``.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, ``pkg_resources`` will know what project and version is in use. The header script will check this and exit with an error if the ``.egg`` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies

=====

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools``

and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `<`, `>`, `<=`, `>=`, `==` or `!=`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `-`.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `>1, >2` becomes `>1`, and `<2, <3` becomes `<3`). `!=` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. `<2, >=2` or `==2, !=2`) is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::

```
docutils >= 0.3
```

```
# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
    ==1.6, ==1.7 # and so are line-end comments
```

```
PEAK[FastCGI, reST]>=0.5a4
```

```
setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.
2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`.)

Dependencies that aren't in PyPI

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `.py` file,
- or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with

a certain prefix. Currently available are:

- ``svn+URL`` for Subversion,
- ``git+URL`` for Git, and
- ``hg+URL`` for Mercurial

A more complete example would be:

```
``vcs+proto://host/path@revision#egg=project-version``
```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the ``requires`` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run ``setup.py bdist_egg``.

The ``dependency_links`` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed::

```
setup(  
    ...  
    dependency_links = [  
        "http://peak.telecommunity.com/snapshots/"  
    ],  
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setup tools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their ``install_requires``.

For example, let's say that Project A offers optional PDF and reST support::

```
setup(  
    ...
```

```

name="Project-A",
...
extras_require = {
    'PDF': ["ReportLab>=1.2", "RXP"],
    'reST': ["docutils>=0.3"],
}
)

```

As you can see, the ``extras_require`` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points`_ to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```

setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen
[PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)

```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```

setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
    ...
)

```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature

name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its ``extras_require`` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ["docutils>=0.3"],
    }
)
```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement specifier.

Including Data Files

=====

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the ``include_package_data`` keyword, e.g.::

```
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' ``MANIFEST.in`` file.

(They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems`_ for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ``package_data`` keyword, e.g.::

```
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)
```

The ``package_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```
setup.py
src/
  mypkg/
    __init__.py
    mypkg.txt
  data/
    somefile.dat
    otherdata.dat
```

The setuptools setup file might look like this::

```
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'), # include all packages under src
    package_dir = {'': 'src'}, # tell distutils packages are under src

    package_data = {

# If any package contains *.txt files, include them:
        '': ['*.txt'],
        # And include any *.dat files found in the 'data' subdirectory
```

```

    # of the 'mypkg' package, also:
    'mypkg': ['data/*.dat'],
}
)

```

Notice that if you list patterns in `package_data` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the `mypkg.txt` file gets included even though it's not listed in the patterns for `mypkg`.

Also notice that if you use paths, you *must* use a forward slash (`^/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the `package_data` argument was previously only available in `setuptools`, it was also added to the Python `distutils` package as of Python 2.4; there is [some documentation for the feature](http://docs.python.org/dist/node11.html) available on the python.org website. If using the setuptools-specific `include_package_data` argument, files specified by `package_data` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

__ <http://docs.python.org/dist/node11.html>

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::

```

from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'), # include all packages under src
    package_dir = {'': 'src'}, # tell distutils packages are under src

    include_package_data = True, # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { ':': ['README.txt'] },
)

```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were

included as a result of using `include_package_data`.

In summary, the three options allow you to:

`include_package_data`

Accept all data files and directories matched by `MANIFEST.in`.

`package_data`

Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

`exclude_package_data`

Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.

Accessing Data Files at Runtime

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of `setuptools`, so if you're using `setuptools` to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. `_Resource Management API`: <http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management>
.. `_Accessing Package Resources`: <http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources>

Non-Package Data Files

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`, by specifying a `Requirement` instead of a package name::

```
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"), "sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the `distutils`' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than `distutils`-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that `setuptools` 0.6a8 and higher automatically detects as shared

libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when the C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract `*all*` C extensions and `eager_resources` at the same time, whenever `*any*` C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of `eager_resources` being relevant to your project.

Extensible Applications and Frameworks

=====

.. `_Entry Points`:

Dynamic Discovery of Services and Plugins

`setuptools` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called `blogtool.parsers`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to

find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool::

```
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```
setup(
    # ...
    entry_points = """
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry

point optional if a requirement isn't installed.)

Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs.

Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a `distutils` extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"

=====

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

`Setuptools` allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the `site-packages` directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the `EasyInstall` tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment

directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop`_`` command below for more details.

Note that you can also apply `setuptools` commands to non-`setuptools` projects, using commands like this::

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a `setuptools`-based project

=====

Using `setuptools`... Without bundling it!

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`_``, and put it in the same directory as your `setup.py`

script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python

import ez_setup
ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of `setuptools`, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, `setuptools` supports the new PyPI "upload" command, so you can use `setup.py sdist upload` or `setup.py bdist_egg upload` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use `setup.py register` to do that. Or you can do it all in one step, e.g. `setup.py register sdist bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)

What Your Users Should Know

In general, a `setuptools`-based project looks just like any `distutils`-based project -- as long as your users have an internet connection and are installing to `site-packages`, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a `setuptools`-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with `setuptools` and `easy_install`.

Network Access

If your project is using `ez_setup`, you should inform users of the need to either have network access, or to preinstall the correct version of `setuptools` using the `EasyInstall` installation instructions. Those instructions also have tips for dealing with firewalls as well as how to

manually download and install `setuptools`.

Custom Installation Locations

You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install `setuptools` using the instructions for `Custom Installation Locations`, before installing your project.

Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `-f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `-f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just `setuptools`, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! Setuptools currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the `distutils` `install` command, it should be able to work with `setuptools`. Some examples of "bdist" formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running `setup.py install` on the command line or as a subprocess will require modification to work with setuptools. They should use the `--single-version-externally-managed` option to the `install` command, combined with the standard `--root` or `--record` options. See the `install` command's documentation below for more details. The `bdist_deb` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the `zip_safe` flag

For some use cases (such as bundling as part of a larger application), Python packages may be run directly from a zip file. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, `setuptools` can install your project as a zipfile or a directory, and its default choice is determined by the project's `zip_safe` flag.

You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just

means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok .` or `setup.py easy_install --always-unzip .` in your project directory. to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location.

"Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this::

```
setup(  
    # ...  
    namespace_packages = ['zope']  
)
```

because it contains a `zope.interface` package that lives in the `zope` namespace package. Similarly, a project for a standalone `zope.publisher` would also declare the `zope` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" `zope` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's `zope.app` package is a namespace package, and in the future PEAK's `peak.util` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' `__init__.py` files (and the `__init__.py` of any parent packages), in a normal Python package layout. These `__init__.py` files *must* contain the line::

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's `__init__.py`. Even though it may appear to work during development, or when projects are installed as `.egg` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the `__init__.py` files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the `__init__.py` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of `__init__.py` is loaded first. If the first loaded `__init__.py` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

TRANSITIONAL NOTE

~~~~~

Setuptools automatically calls `declare_namespace()` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the `pkg_resources` runtime, and also the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed.

Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

#### Tagging and "Daily Build" or "Snapshot" Releases

-----

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g.

"stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

- \* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING`)

- \* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r`)

- \* An 8-character representation

of the build date (`--tag-date, -d``), as  
a postrelease tag

You can add these tags by adding `egg_info`` and the desired options to the command line ahead of the `sdist`` or `bdist`` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info`_`` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version`_`` for more information about how pre- and post-release tags affect how `setuptools` and `EasyInstall` interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate`_`` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias`_`` command, which would let each package define an alias like `daily`` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run `setup.py daily`` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily`` alias, so that projects that didn't define their own would use the appropriate defaults.)

## Generating Source Distributions

-----  
`setuptools``  
enhances the `distutils`` default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a `MANIFEST.in`` file. See the section below on `Adding Support for Revision Control Systems`_`` for information on plugins.

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a `MANIFEST.in` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the `MANIFEST.in` file.

But, be sure to ignore any part of the distutils documentation that deals with `MANIFEST` or how it's generated from `MANIFEST.in`; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `.egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its `sdist` command omits nearly all of the options that the distutils' more complex `sdist` process requires. For all practical purposes, you'll probably use only the `--formats` option, if you use any option at all.

#### Making your package available for EasyInstall

-----

If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs` for the register command for more details.)

.. `_docs` for the register command: <http://docs.python.org/dist/package-index.html>

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

`url` and `download_url`

These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the



page for primary links

```long_description```

EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ```#egg=project``` or ```#egg=project-version``` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link \*without\* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your ```url``` or ```download_url``` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either ```#egg=project``` or ```#egg=project-version``` added to the URL. You should replace ```project``` and ```version``` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ```#egg=``` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ```#egg=projectname-dev```), so that users can do something like this::

```
easy_install --editable projectname==dev
```

in order to check out the in-development version of ```projectname```.

## Managing "Continuous Releases" Using Subversion

-----

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly

with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```
.. code-block:: ini

[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like `1.0a1.dev-r1263`, which will be considered to be an *older* release than `1.0a1`. Thus, when you actually release `1.0a1`, the entire egg infrastructure (including `setuptools`, `pkg_resources` and EasyInstall) will know that `1.0a1` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in `setup.py` should always be the *next* version of your software, not the last released version.

Alternately, you can leave out the `tag_build=.dev`, and always use the *last* release as a version number, so that your post-1.0 builds are labelled `1.0-r1263`, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version

still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an `#egg=projectname-dev` suffix. This allows users to request EasyInstall to download `projectname==dev` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include `==dev`, e.g.:

```
.. code-block:: python

install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an `#egg=OtherProject-dev` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags

as described in this section, it's a good idea to run `setup.py develop` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run `setup.py develop` after every update in order to keep their checkout completely in sync.

## Making "Official" (Non-Snapshot) Releases

~~~~~

When

you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

The first part of this command (`egg_info -RDb ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info`_`` and `alias`_`` commands for more ideas.

Distributing Extensions compiled with Pyrex

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx`` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

----- Command Reference -----

.. _alias:

``alias`` - Define shortcuts for commonly used commands

=====
Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different ``egg_info`` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion``, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines

a sitewide alias called "daily", that sets various ``egg_info`` tagging options::

```
setup.py alias --global-config daily egg_info --tag-svn-revision \  
--tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.::

```
setup.py daily bdist_egg # generate a daily-build .egg file  
setup.py daily sdist # generate a daily-build source distro  
setup.py daily sdist bdist_egg # generate both
```

The above commands are interpreted as if the word ``daily`` were replaced with ``egg_info --tag-svn-revision --tag-build=development``.

Note that `setuptools` will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the ``bdist_egg`` command so that it always runs the ``rotate`` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on ``bdist_egg`` because the alias is only expanded once when used.

You

can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options`_` (listed under the saveopts`_` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).`

Note that if you omit the "expansion" argument to the ``alias`` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

`bdist_egg` - Create a Python Egg for the project

This command generates a Python Egg (`.egg` file) for the project.

Python

Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`.egg-info`) directory. If you have added any extra metadata files to the `.egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

`--dist-dir=DIR,`

`-d DIR`

Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

`--plat-name=PLATFORM, -p PLATFORM`

Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

`--exclude-source-files`

Don't include any modules' `.py` files in the egg, just compiled Python,

C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being

bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

`--keep-temp, -k`

Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

`--bdist-dir=DIR, -b DIR`

Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

`--skip-build`

Skip doing any "build" commands; just go straight to the install-and-compress phases.

`.. _develop:`

`develop` - Deploy the project source in "Development Mode"

=====
This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies

are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

`--uninstall, -u`

Un-deploy the current project. You may use the `--install-dir` or `-d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `-x`) option when you run `develop` to deploy the project.

`--multi-version, -m`

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which

case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

`--install-dir=DIR, -d DIR`

Set the installation directory (staging area). If this option is not directly specified

on the command line or in a distutils configuration

file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

`--script-dir=DIR, -s DIR`

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

`--exclude-scripts, -x`

Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

`--always-copy, -a`

Copy all needed distributions to the staging area, even if they are already present in another directory on `sys.path`. By default, if a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.

`--egg-path=DIR`

Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

`easy_install` - Find and install packages

=====

This command runs the `EasyInstall` tool `<easy_install.html>` for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the `EasyInstall` documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

- * create command aliases that use it,
- * create distutils extensions that invoke it as a subcommand, and
- * configure options for it in your `setup.cfg` or other distutils config files.

.. `_egg_info`:

`egg_info` - Create egg metadata and set build tags

=====

This command performs two operations: it updates a project's `.egg-info` metadata directory (used by the `bdist_egg`, `develop`, and `test` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the `.egg-info/SOURCES.txt` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details.

Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

Release Tagging Options

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

`--tag-build=NAME, -b NAME`

Append NAME to the project's version string. Due to the way `setuptools` processes "pre-release" version suffixes beginning with the letters "a"

through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off `--tag-build` and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `-b ""` or `--tag-build=""` as an argument to the `egg_info` command.

`--tag-svn-revision, -r`

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will

look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a "-rNNNN" string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

`--no-svn-revision, -R`

Don't include the Subversion revision in the version number. This option

is included so you can override a default setting put in ``setup.cfg``.

`--tag-date, -d`

Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

`--no-date, -D`

Don't include a date stamp in the version number. This option is included so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version`_ for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's ``.egg-info`` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other ``egg_info`` Options

`--egg-base=SOURCEDIR, -e SOURCEDIR`

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a ``src`` or ``lib`` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the ``package_dir`` argument to the ``setup()`` function, if any. If there is no ``package_dir`` set, this option defaults to the current directory.

``egg_info`` Examples

Creating a dated "nightly build" snapshot egg::

```
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
```

Creating and uploading a release with no version tags, even if some default tags are specified in ``setup.cfg``::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

(Notice that `egg_info` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. `_install` command:

```
install - Run easy_install or old-style installation
```

=====

The `setuptools install` command is basically a shortcut to run the `easy_install` command on the current project. However, for convenience in creating "system packages" of `setuptools`-based projects, you can also use this option:

```
--single-version-externally-managed
```

This boolean option tells the `install` command to perform an "old style" installation, with the addition of an `.egg-info` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another `distutils` command, so that commands like `bdist_wininst` and `bdist_rpm` will create system packages of eggs. It is also automatically in effect if you specify the `--root` option.

```
install_egg_info - Install an .egg-info directory in site-packages
```

=====

`Setuptools`

runs this command as part of `install` operations that use the `--single-version-externally-managed` options. You should not invoke it directly; it is documented here for completeness and so that `distutils` extensions such as system package builders can make use of it. This command has only one option:

```
--install-dir=DIR, -d DIR
```

The parent directory where the `.egg-info` directory will be placed. Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `egg_info` command has been given valid options

via the command line or `setup.cfg`, as it will invoke the `egg_info` command and use its options to locate the project's source `.egg-info` directory.

.. `_rotate`:

`rotate` - Delete outdated distribution files

=====

As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

`--match=PATTERNLIST, -m PATTERNLIST`

Comma-separated list of glob patterns to match. This option is *required*. The project name and `-*` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like `.zip` or `.egg` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

`--keep=COUNT, -k COUNT`

Number of matching distributions to keep. For each group of files identified by a pattern specified with the `--match` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

`--dist-dir=DIR, -d DIR`

Directory where the distributions are. This defaults to the value of the `bdist` command's `--dist-dir` option, which will usually be the project's `dist` subdirectory.

Example 1: Delete all `.tar.gz` files from the distribution directory, except for the 3 most recently modified ones::

```
setup.py rotate --match=.tar.gz --keep=3
```

Example 2: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

```
setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```

.. _saveopts:

```saveopts``` - Save used options to a configuration file

=====

Finding and editing ```distutils``` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form

to the proper configuration file format. You can avoid these hassles by using the ```saveopts``` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ```mingw32``` C compiler, then saves the `--compiler` setting as the default for future builds (even those run implicitly by the ```install``` command)::

```
setup.py build --compiler=mingw32 saveopts
```

The ```saveopts``` command saves all options for every command specified on the command line to the project's local ```setup.cfg``` file, unless you use one of the ```configuration file options``` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) `distutils` configuration::

```
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the ```saveopts``` command on the command line; it will still save all the options specified for all commands.

For

example, this is another valid way to spell the last example::

```
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where ```saveopts``` is placed on the command line.

### Configuration File Options

-----

Normally, settings such as options and aliases are saved to the project's local ```setup.cfg``` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

```--global-config, -g```

Save settings to the global ```distutils.cfg``` file inside the ```distutils``` package directory. You must have write access to that directory to use this option. You also can't combine this option with ```-u``` or ```-f```.

```--user-config, -u```

Save settings to the current user's ``~/pydistutils.cfg`` (POSIX) or ``\$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option with ``-g`` or ``-f``.

``--filename=FILENAME,  
-f FILENAME``

Save settings to the specified configuration file to use. You can't combine this option with ``-g`` or ``-u``. Note that if you specify a non-standard filename, the ``distutils`` and ``setuptools`` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ``setuptools`` commands that modify configuration files, such as the ``alias``\_ and ``setopt``\_ commands.

.. \_setopt:

``setopt`` - Set a distutils or setuptools option in a config file

=====

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ``mingw32`` (using long option names)::

```
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**Example**

**2**. Remove any setting for the distutils default package installation directory (short option names)::

```
setup.py setopt -c install -o install_lib -r
```

Options for the ``setopt`` command:

``--command=COMMAND, -c COMMAND``

Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``

The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``

The value to set the option to. Not needed if ``-r`` or ``--remove`` is set.



`--remove, -r`

Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options`_` (listed under the saveopts`_` command, above) to determine which distutils configuration file the option will be added to (or removed from).`

`.. _test:`

`test` - Build package and run a unittest suite`

=====

When doing test-driven development, or running automated builds that need testing

before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on sys.path`, after first running build_ext -i` and egg_info` to ensure that any C extensions and project metadata are up-to-date.`

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a TestCase` class or method, or a module or package containing TestCase` classes. If the named suite is a module, and the module has an additional_tests()` function, it is called and the result (which must be a unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a`

`test_loader`, the rules for processing the chosen test_suite` may differ; see the test_loader`_` documentation for more details.)`

Note that many test systems including `doctest` support wrapping their non-unittest` tests in TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.`

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the -q` or --quiet` option, either as a global option to the setup script (e.g. setup.py -q test`) or as an option for the test` command itself (e.g. setup.py test -q`). There is one other option available:`

`--test-suite=NAME, -s NAME`

Specify the test suite (or module, class, or method) to be run

(e.g.

`some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.:

```
setup(
 # ...
 test_suite = "my_package.tests.test_all"
)
```

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

.. `_upload`:

`upload` - Upload source and/or egg distributions to PyPI

=====

The `upload` command is implemented and documented <<https://docs.python.org/3.1/distutils/uploading.html>> in `distutils`.

Setuptools augments the `upload` command with support for `keyring` <<https://pypi.python.org/pypi/keyring>>, allowing the password to be stored in a secure location and not in plaintext in the `.pyirc` file. To use `keyring`, first install `keyring` and set the password for the relevant repository, e.g.:

```
python -m keyring set <repository> <username>
Password for '<username>' in '<repository>': *****
```

Then, in `.pyirc`, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the `keyring`.

New in 20.1: Added `keyring` support.

.. `_upload_docs`:

`upload_docs` - Upload package documentation to PyPI

=====

PyPI now supports uploading project documentation to the dedicated URL <https://pythonhosted.org/<project>/>.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils `register` command -- just like the `upload` command.

Assuming there is an `Example` project with documentation in the subdirectory `docs`, e.g.:

```
Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
| |-- build
| |
| `-- html
| | | |-- index.html
| | | `-- tips_tricks.html
| |-- conf.py
| |-- index.txt
| `-- tips_tricks.txt
```

You can simply pass the documentation directory path to the `upload_docs` command:

```
python setup.py upload_docs --upload-dir=docs/build/html
```

If no `--upload-dir` is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation.

For the command to become available, `Sphinx` <<http://sphinx.pocoo.org/>> must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

```
.. code-block:: ini
```

```
[upload_docs]
upload-dir = docs/build/html
```

The `upload_docs` command has the following options:

```
--upload-dir
```

The directory to be uploaded to the repository.

```
--show-response
```

Display the full response text from server; this is useful for debugging PyPI problems.

```
--repository=URL,
-r URL`
```

The URL of the repository to upload to. Defaults to <https://pypi.python.org/pypi> (i.e., the main PyPI installation).

## ----- Extending and Reusing Setuptools -----

### Creating ``distutils`` Extensions =====

It can be hard to add new commands or setup arguments to the distutils. But the ``setuptools`` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their ``setup\_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new commands and ``setup()`` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins`\_ above for some more background on entry points.)

### Adding Commands -----

You can add new ``setup`` commands by defining entry points in the ``distutils.commands`` group. For example, if you wanted to add a ``foo`` command, you might add something like this to your distutils extension project's setup script::

```
setup(
 # ...
 entry_points = {
 "distutils.commands": [
 "foo = mypackage.some_module:foo",
],
 },
)
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some\_module`` is a ``setuptools.Command`` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the `distutils` to search for entry points in the active distributions on `sys.path`. In fact, this is how `setuptools`' own commands are installed: the `setuptools` project's setup script defines entry points for them!

#### Adding `setup()` Arguments

-----

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your `distutils` extension project's setup script::

```
setup(
 # ...
 entry_points = {
 "distutils.commands": [
 "foo = mypackage.some_module:foo",
],
 "distutils.setup_keywords": [
 "bar_baz = mypackage.some_module:validate_bar_baz",
],
 },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied.

The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here's an example validation function::

```
def assert_bool(dist, attr, value):
 """Verify that value is True, False, 0, or 1"""
 if bool(value) != value:
 raise DistutilsSetupError(
 "%r must be a boolean value (got %r)" % (attr,value)
)
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

#### Adding new EGG-INFO Files

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument::

```
setup(
 # ...
 entry_points = {
 "distutils.setup_keywords": [
 "foo_bar = setuptools.dist:assert_string_list",
],
 "egg_info.writers": [
 "foo_bar.txt = setuptools.command.egg_info:write_arg",
],
 },
)
```

```
 },
)
```

This simple example makes use of two utility functions defined by `setuptools` for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the `writer` utility looks like::

```
def write_arg(cmd, basename, filename):
 argname = os.path.splitext(basename)[0]
 value = getattr(cmd.distribution, argname, None)
 if value is not None:
 value = '\n'.join(value)+'\n'
 cmd.write_or_delete_file(argname, filename, value)
```

As you can see, `egg_info.writers` entry points must be a function taking three arguments: a `egg_info` command instance, the basename of the file to write (e.g. `foo_bar.txt`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

## Adding Support for Revision Control Systems

-----  
If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm` <[https://pypi.python.org/pypi/setuptools\\_scm](https://pypi.python.org/pypi/setuptools_scm)>`\_
- SVN: `setuptools_svn` <[https://pypi.python.org/pypi/setuptools\\_svn](https://pypi.python.org/pypi/setuptools_svn)>`\_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

.. code-block:: python

```
def find_files_for_foobar(dirname):
 # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this::

```
entry_points = {
 "setuptools.file_finders": [
 "foobar = my_foobar_module:find_files_for_foobar"
]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in ``setup\_requires``. When you create a source distribution with the ``sdist`` command, setuptools automatically records what files were found in the ``SOURCES.txt`` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

- \* Your finder function **MUST** return relative paths, created by appending to the passed-in directory name. Absolute paths are **NOT** allowed, nor are relative paths that reference a parent directory of the passed-in directory.
- \* Your finder function **MUST** accept an empty string as the directory name, meaning the current directory. You **MUST NOT** convert this to a dot; just yield relative paths. So, yielding a subdirectory named ``some/dir`` under the current directory should **NOT** be rendered as ``./some/dir`` or ``/somewhere/some/dir``, but *always* as simply ``some/dir``
- \* Your finder function **SHOULD NOT** raise any errors, and **SHOULD** deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use ``distutils.log.warn()`` to inform the user of the missing program(s).

Subclassing ``Command``

-----



Sorry, this section isn't written yet, and  
neither is a lot of what's below  
this point.

XXX

Reusing ``setuptools`` Code

=====

``ez\_setup``

-----

XXX

``setuptools.archive\_util``

-----

XXX

``setuptools.sandbox``

-----

XXX

``setuptools.package\_index``

-----

XXX

Mailing List and Bug Tracker

=====

Please use the `distutils-sig mailing list`\_ for questions and discussion about  
setuptools, and the `setuptools bug tracker`\_ ONLY for issues you have  
confirmed via the list are actual bugs, and which you have reduced to a minimal  
set of steps to reproduce.

.. \_distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

.. \_setuptools bug tracker: <https://github.com/pypa/setuptools/>

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050086594\_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-  
20.10.1/docs/setuptools.txt

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

License :: OSI Approved :: MIT License

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050086594\_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/setup.py

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

```
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050086594\_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg\_resources/\_vendor/pyparsing.py

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

```
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# 1.355 wireshark 2.6.17

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/opt/ws\_local/PERMITS\_SQL/1066860113\_1597682553.9/0/tftp-ha-0-48-tar/src/tftpsubs.c  
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* SUCH DAMAGE.
*
* @(#)extern.h 8.1 (Berkeley) 6/6/93
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1066860113_1597682553.9/0/tftp-ha-0-48-tar/include/extern.h
```

# 1.362 libasyncons 0.8

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Version 2.1, February 1999

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## 1.364 gsoap 2.7.12

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## 1.365 smartmontools 7.0

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

Found in path(s):

\* /opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.8.in

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* ----- */
```

Found in path(s):

`*/opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.h`

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* ----- */
```

Found in path(s):

`*/opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/config.h`

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

```

Found in path(s):

```

* /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
 hpa/tftp/tftp.1.in

```

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\* /opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/common/tftpsubs.h  
\*

/opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/extern.h

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\* /opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/common/tftpsubs.c

\*

/opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/main.c

\* /opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/tftp.c

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\* /opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/recvfrom.h

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\* /opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/remap.h

\* /opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/misc.c

\* /opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/remap.c

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Found

in path(s):

\* /opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/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 eggs
  
- \* 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):

\* /opt/cola/permits/1077592975\_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp.spec.in

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\*

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\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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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

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Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,  
Peter Allworth <linsol at zeta dot org dot au>,  
James Bottomley <jejb at parisc-linux dot org>,  
Lars Marowsky-Bree <lmb at suse dot de>,  
Kurt Garloff <garloff at suse dot de>,  
Grant Grundler <grundler at parisc-linux dot org>,  
Christophe Varoqui <christophe dot varoqui at free dot fr>,  
Michael Weller <eowmob at exp-math dot uni-essen dot de>,  
Eric Youngdale <eric at andante dot org>

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Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,  
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,  
Peter Allworth <linsol at zeta dot org dot au>,  
James Bottomley <jejb at parisc-linux dot org>,  
Lars Marowsky-Bree <lmb at suse dot de>,  
Kurt Garloff <garloff at suse dot de>,  
Grant Grundler <grundler at parisc-linux dot org>,  
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```

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<signature of Ty Coon>, 1 April 1989

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## 1.378 curl 7.74.0

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cmd/krb5/kadmin/server/iprofd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
```

lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
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lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c

lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/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  
slave/kpropd\_rpc.c  
slave/kproplog.c

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Jeffrey Yasskin <jyasskin@google.com>

Ji Sigursson <joi@google.com>

Keir Mierle <mierle@gmail.com>

Keith Ray <keith.ray@gmail.com>

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Manuel Klimek <klimek@google.com>

Markus Heule <markus.heule@gmail.com>

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```

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Version 2.1, February 1999

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

We call this license the "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.

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

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

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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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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.

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

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

## TERMS AND CONDITIONS

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

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#### 1. Source Code.

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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

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

Author: Julio Merino

<jmmv@users.sourceforge.net>

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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<!-- \$Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

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

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

```
version="1.0">
```

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

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

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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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Version 3, 29 June 2007

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```
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# 1.400 curl 7.54.0

## 1.400.1 Available under license :

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=====

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## 1.405 sysv-init 2.88

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The of the start-stop-daemon

- \* A rewrite
- of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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## 1.406 util-linux 2.23.2-26.el7

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it
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```

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

---

#1: 32 7648 0x83

#2: 7680 8704 0xa5

#5: 7936 4864 0x7 (freebsd)

#6: 12544 3584 0x7 (freebsd)

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 \* 512 = 512 bytes

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

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

Disk label type: dos

Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
--------	------	-------	-----	--------	----	--------

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 \* 512 = 512 bytes

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

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

Disk label type: dos

Disk identifier: 0x00000001

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

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023

bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 \* 512 = 512 bytes

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

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

Disk label type: dos

Disk identifier: 0x00000001

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

-----

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

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

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

# start end size fstype [fsize bsize cpg]

c: 4096 20479 16384 unused 0 0

d: 0

16064 16065 unused 0 0

BSD disklabel command (m for help):

Command (m for help):

-----

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

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

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

```
start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0
```

BSD disklabel command (m for help):

Command (m for help):

-----

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

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

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

BSD disklabel command (m for help):

/\*

```
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Mark Lord (mlord@pobox.com)

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\* Author: Adam Dunkels <adam@sics.se>

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\* \$Id: lc-addrlabels.h,v 1.3 2006/06/12 08:00:30 adam Exp \$

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\* \$Id: telnetd.h,v 1.2 2006/06/07 09:43:54 adam Exp \$

\*

\*/

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\* \$Id: smtp.h,v 1.4 2006/06/11 21:46:37 adam Exp \$\br/>\*  
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\* \$Id: main.c,v 1.16 2006/06/11 21:55:03 adam Exp \$\br/>\*

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\* \$Id: clock-arch.c,v 1.2 2006/06/12 08:00:31 adam Exp \$

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* Author: Adam Dunkels <adam@sics.se>
*
* $Id: uip-split.h,v 1.2 2006/06/12 08:00:30 adam Exp $
*/

```

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```

```

/**

```

```

\defgroup pt Protothreads

```

Protothreads are a type of lightweight stackless threads designed for severely 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 an 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, `<b>local variables are not preserved when the protothread blocks</b>`. This means that local variables should be used with utmost care - `<b>if in doubt, do not use local variables inside a protothread!</b>`

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 an 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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\*  
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\*  
\* \$Id: smtp-strings.h,v 1.3 2006/06/11 21:46:37 adam Exp \$  
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\* \$Id: clock.h,v 1.3 2006/06/11 21:46:39 adam Exp \$

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* $Id: uip-split.c,v 1.2 2006/06/12 08:00:30 adam Exp $
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\* \$Id: clock-arch.h,v 1.2 2006/06/12 08:00:31 adam Exp \$

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\* \$Id: uip\_arp.h,v 1.5 2006/06/11 21:46:39 adam Exp \$

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\* Author: Adam Dunkels <adam@sics.se>

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\* \$Id: tapdev.c,v 1.8 2006/06/07 08:39:58 adam Exp \$

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\* \$Id: memb.c,v 1.1 2006/06/12 08:21:43 adam Exp \$

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\* \$Id: telnetd.c,v 1.2 2006/06/07 09:43:54 adam Exp \$

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\* \$Id: smtp-strings.c,v 1.3 2006/06/11 21:46:37 adam Exp \$

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* Author: Adam Dunkels <adam@sics.se>
*
* $Id: uip-fw.c,v 1.2 2006/06/12 08:00:30 adam Exp $
*/

```

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\* /opt/cola/permits/1151118424\_1618480542.71/0/uip-master-zip/uip-master/doc/html/a00176.html

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\* \$Id: uip\_arch.h,v 1.2 2006/06/07 09:15:19 adam Exp \$

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*
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* Author: Adam Dunkels <adam@sics.se>
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* $Id: httpd.c,v 1.2 2006/06/11 21:46:38 adam Exp $
*/
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\* Author: Adam Dunkels <adam@sics.se>  
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\* \$Id: uip-fw.h,v 1.2 2006/06/12 08:00:30 adam Exp \$  
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*
* Author: Adam Dunkels <adam@sics.se>
*
* $Id: timer.c,v 1.2 2006/06/12 08:00:30 adam Exp $
*/

```

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```
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* /opt/cola/permits/1151118424_1618480542.71/0/uip-master-zip/uip-master/doc/html/a00046.html
* /opt/cola/permits/1151118424_1618480542.71/0/uip-master-zip/uip-master/doc/html/a00172.html

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 *
 * @(#) $Id: dhcpc.h,v 1.3 2006/06/11 21:46:37 adam Exp $
 */
```

Found in path(s):

```
*/opt/cola/permits/1151118424_1618480542.71/0/uip-master-zip/uip-master/apps/dhcpc/dhcpc.h
```

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\* Author: Adam Dunkels <adam@sics.se>  
\*  
\* \$Id: psock.c,v 1.2 2006/06/12 08:00:30 adam Exp \$  
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* $Id: webclient.h,v 1.2 2006/06/11 21:46:37 adam Exp $
*
*/
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\* \$Id: shell.c,v 1.1 2006/06/07 09:43:54 adam Exp \$

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\* \$Id: psock.h,v 1.3 2006/06/12 08:00:30 adam Exp \$  
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 *
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 *
 * $Id: httpd-fsdata.h,v 1.1 2006/06/07 09:13:08 adam Exp $
 */
```

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\*

\* Author: Adam Dunkels <adam@sics.se>

\*  
\* \$Id: lc-switch.h,v 1.2 2006/06/12 08:00:30 adam Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1151118424\_1618480542.71/0/uip-master-zip/uip-master/uip/lc-switch.h

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## 1.421 libdevmapper 2.02.97-r4.0

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# 1.422 tdb 1.4.2

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Version 3, 29 June 2007

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## 1.423 cJSON 3.6-r0

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Original Author:

- [Dave Gamble](https://github.com/DaveGamble)

Current Maintainer:

- [Max Bruckner](https://github.com/FSMaxB)

- [Alan Wang](https://github.com/Alanscut)

Contributors:

- \* [Ajay Bhargav](https://github.com/ajaybhargav)
- \* [Alper Akcan](https://github.com/alperakcan)
- \* [Andrew Tang](https://github.com/singku)
- \* [Anton Sergeev](https://github.com/anton-sergeev)
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- \* [Fabrice Fontaine](https://github.com/ffontaine)
- \*

Ian Mobley

- \* Irwan Djadjadi
- \* [HuKeping](https://github.com/HuKeping)
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- \* [Jakub Wilk](https://github.com/jwilk)
- \* [Jiri Zouhar](https://github.com/loigu)
- \* [Jonathan Fether](https://github.com/jfether)
- \* [Julian Ste](https://github.com/julian-st)
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And

probably more people on [SourceForge](https://sourceforge.net/p/cjson/bugs/search/?q=status%3Aclosed-rejected+or+status%3Aclosed-out-of-date+or+status%3Awont-fix+or+status%3Aclosed-fixed+or+status%3Aclosed&page=0)

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## 1.424 libaio 3.8-r0

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## 1.426 libevdev 220

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Found in path(s):

\* /opt/cola/permits/1152279922\_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/docs/index.html

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

```
/*
www.sourceforge.net/projects/tinyxml
Original code by Lee Thomason (www.grinninglizard.com)
```

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```
*/
```

Found in path(s):

```
*
/opt/cola/permits/1152279922_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxmlparser.cpp
No license file was found, but licenses were detected in source scan.
```

```
/** @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.

## What it doesn't do.

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](http://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](http://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.)

<ul>

<li> <b>TinyXPath</b> (<http://tinyxpath.sourceforge.net>). TinyXPath is a small footprint XPath syntax decoder, written in C++.</li>

<li> <b>TinyXML++</b> (<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.</li>

</ul>

<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:

<ol>

<li> 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. </li>

<li> If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8. </li>

<li> 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.</li>

<li> Until one of the above criteria is met, TinyXML runs in Legacy Mode.</li>

</ol>

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 `<a href="http://skew.org/xml/tutorial/">Skew.org link</a>` 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 "&#xA0;" or "&#160;" are both to the non-breaking space character.

### <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 occurred in the original source can be very time saving.

TinyXML can track 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 dependencies have been hard coded.

### <h3>Windows project file for VC6</h3>

<ul>

<li>tinyxml: tinyxml library, non-STL </li>

<li>tinyxmlSTL: tinyxml library, STL </li>

<li>tinyXmlTest: test app, non-STL </li>

<li>tinyXmlTestSTL: test app,

STL </li>

</ul>

### <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" Attributes: 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](http://www.sourceforge.net/projects/tinyxml)

Lee Thomason, Yves Berquin, Andrew Ellerton

\*/

Found in path(s):

\* /opt/cola/permits/1152279922\_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/readme.txt

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

<a name="I00009"></a>00009 <span class="comment">Permission is granted to anyone to use this software for any</span>

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<a name="I00018"></a>00018 <span class="comment">2. Altered source versions must be plainly marked as such, and</span>

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\* /opt/cola/permits/1152279922\_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/docs/tinyxml\_8h\_source.html

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Found in path(s):

\* /opt/cola/permits/1152279922\_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/docs/tinystl\_8h\_source.html

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Any executables

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<signature of Ty Coon>, 1 April 1990  
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From gsf@research.att.com Wed Mar 1 20:30:54 2006

Return-Path: <gsf@research.att.com>

X-Original-To: mps@bridge.intra

Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1])

by localhost (Postfix) with ESMTP id B8C814E4F

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)

Received: from mail.bridge.intra ([127.0.0.1])

by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)

with LMTP id 05987-03 for <mps@bridge.intra>;

Wed, 1 Mar 2006 20:30:42 +0100 (CET)

Received: from pop.gmx.net (localhost [127.0.0.1])

by mail.bridge.intra (Postfix) with ESMTP id C8C73794D

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)

X-Flags: 0000

Delivered-To: GMX delivery to ps.m@gmx.net

Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000

Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]  
by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100  
Received: from raptor.research.att.com (raptor.research.att.com  
[135.207.23.32])  
by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB  
for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
Received: (from gsf@localhost)  
by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112  
for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
From: Glenn Fowler <gsf@research.att.com>  
Message-Id: <200603011923.OAA86112@raptor.research.att.com>  
Organization: AT&T Research  
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>  
To: mps@bridge.intra  
Subject: Re: testregex licensing question  
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)  
X-GMX-Antispam: 0 (Mail was not recognized as spam)  
X-GMX-UID: 1JF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca  
X-Virus-Scanned: by amavisd-new at localhost  
Status: RO  
X-Status:  
X-Keywords:  
  
X-UID: 44736

you may include it directly  
retain the testregex.c header comment  
it uses a very free license to maximize distribution  
you can copy that .c comment to any test data files you use  
using # comment style to be complete

let me know how it works with your libc  
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

> Hello Glenn!

> I would want to add testregex.c and the related \*.dat files to the uClibc  
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any  
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite

> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2

> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

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## 1.436 libedit 20080614-2.11

### 1.436.1 Available under license :

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## 1.437 kerberos 1.10.3

## 1.437.1 Available under license :

[ NOTE: MIT has only incorporated the mechglue and spnego change, and not the incremental propagation changes. The filenames are different between the Sun and MIT sources. The actual MIT filenames appear in the top-level README file. Original text of Sun's LICENSE file follows. ]

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```
cmd/krb5/ipropl/ipropl.x
cmd/krb5/ipropl/ipropl_hdr.h
cmd/krb5/kadmin/server/ipropl_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
```



lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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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  
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lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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



include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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## 1.439 libiniparser 4.0

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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	from			compatible? (1)
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
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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

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

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

3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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## 1.441 example 21.12

### 1.441.1 Available under license :

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

Metadata-Version: 2.1  
Name: example  
Version: 21.12  
Summary: UNKNOWN  
Home-page: UNKNOWN  
Author: UNKNOWN  
Author-email: UNKNOWN  
License: Apache Software License  
Platform: UNKNOWN

UNKNOWN

Found in path(s):

\* /opt/cola/permits/1403936596\_1661910591.6366453/0/example-21-12-dist-info-  
zip/inputdir/packages\_extracted/wheel/127/example-21.12.dist-info/METADATA

# 1.442 fdisk 2.32.1

## 1.442.1 Available under license :

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```

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```

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

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```
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```

```
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Ty Coon, President of Vice
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\*/

```
7zXZF!t]o."w[7gp<G
H:Oed 18uyMQ9]FO6
87I8.mhGl^eb_X/UQKuB
)Cdk!B_M/tw|11np#_(~*uM%S61opMG`YfRXvY[R+t[BS=)d
;*!;_>KfBqxY(F)0.Ve%S61opMG`YfRXvY[R+t[BS=)d
;*!;_>KfBqxYm+sS|11np#_(~*uM%S61opMG`YfRXvY[R+t[BS=)d
;*!;_>KfBqxY(F)0.Ve%S61opMG`YfRXvY[R+t[BS=)d ;*!;_>KfBqxY(F)0.Ve%Q?
*sS|11np#_(~*u7gi}[IgYZ
```

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## 1.443 tdb 1.44.3-r0

### 1.443.1 Available under license :

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



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#

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

#

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

#

# BSDLIB\_VERSION = 1.0

```

BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

```

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes

- 
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Gadi Oxman, August 1995

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#### Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively 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

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Theodore Ts'o  
23-June-2007

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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.)

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

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

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

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

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

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

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

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free

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

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

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

When a "work that uses the Library" uses material from a header file

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

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

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

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

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

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

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

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



<http://sourceforge.net/projects/e2fsprogs>

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