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Text Part Number: 78EE117C99-1211756031

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1.340 iptables 1.6.2

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1.341 attr 2.4.46 12.el7

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1.342 acl 2.2.51 12.el7

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1.343 pam 1.1.8 18.el7

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1.345 nspr 4.13.1 1.0.el7_3

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1.346 libcap 2.22 8.el7

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1.347 libxml2 2.9.1 6.el7_2.3

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1.348 numactl 2.0.9 6.el7_2

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1.349 glib 2.58.0

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1.350 audit 2.6.5 3.el7

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1.351 fontconfig 2.10.95 11.el7

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1.352 open-ldap 2.4.44 5.el7

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1.353 glib 2.50.3 3.el7

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1.354 netbsd-resolv 2.17 196.el7_4.2

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1.355 iproute 3.10.0 87.el7

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1.356 dhcp 4.2.5 58.el7.centos

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1.358 nss 3.28.4 8.el7

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1.360 curl 7.28.1

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1.361 busybox 1.29.2

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1.362 strace 4.10

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1.366 ptpd v1rc1
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1.367 readline 4.4
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1.368 selinux 2.6
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1.375 linux-kernel 3.4.30
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1.376 libcap 2.25
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1.377 expat 2.1.0
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1.389 libgpg-error 1.32
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1.392 sysstat 8.1.2
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1.393 autogen 4.9
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1.396 netbsd-resolv 2.24
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1.397 netkit-tftp 1.0
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1.398 tinyxml-2 3.0.0
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1.415 tcp-wrappers 7.6 77.el7

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1.419 ptpd 1rc1

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1.420 libusb 1.0.8

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1.421 sblim-sfcb 1.3.3-040609

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1.483 libnl3 1.1.4 3.el7
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1.495 mdadm 4.1
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1.499 smartmontools 6.6

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1.501 netcat-openbsd 1.190

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1.502 sysstat 11.7.4

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1.503 ntp 4.2.8p15

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1.504 libfastjson 0.99.8-r0

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1.505 ipmi-tool 1.8.11

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1.506 ipmi-tool 1.8.17

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1.507 tftp-hpa 0.48

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1.509 libasyncns 0.8

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1.510 syslog-ng 3.16.1

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1.511 gdkpixbuf 2.24.1

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1.514 libssh2 0.18

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1.516 tftp-hpa 1.9.2

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1.517 cairo 1.14.8-2.el7

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1.585.1 Available under license
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1.597 uip 1.0

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1.602 acl 2.2.52-r0

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1.609 tiny-xml 0.9.5-5.3.el6

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1.633 libpciaccess 0.12.902-1

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1.638 libtecla 1.4.1
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1.642 apache-http-server 2.4.48
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1.660 example 21.12
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1.664 raritan-ipmi 1-1
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1.669.1 Available under license
1.670 libdevmapper 2.02.180
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1.1 libtomcrypt 1.17

1.1.1 Available under license :

```
# /*
#   * SHA-512
#   * Implementation derived from LibTomCrypt (Tom St Denis)
#   *
```

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

1.2 grub 0.97

1.2.1 Available under license :

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* 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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1.9 unzip 6.0

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1.14 hd-parm 9.32-1

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1.15 libpciaccess 0.12.902-1

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1.16 tar 1.23

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1.17 u-boot 1.3.0

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1.19 jquery 1.7.2

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ppp-2.4.5/include/net/if_ppp.h
ppp-2.4.5/pppd/auth.c
ppp-2.4.5/pppd/fsm.c
ppp-2.4.5/pppd/fsm.h
ppp-2.4.5/pppd/ipcp.c
ppp-2.4.5/pppd/ipcp.h
ppp-2.4.5/pppd/ipv6cp.c
ppp-2.4.5/pppd/ipv6cp.h
ppp-2.4.5/pppd/ipxcp.c
ppp-2.4.5/pppd/ipxcp.h
ppp-2.4.5/pppd/lcp.c
ppp-2.4.5/pppd/lcp.h
ppp-2.4.5/pppd/magic.c
ppp-2.4.5/pppd/magic.h
ppp-2.4.5/pppd/main.c
ppp-2.4.5/pppd/options.c
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Jean-loup Gailly Mark Adler
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ppp-2.4.5/pppd/plugins/rp-pppoe/discovery.c
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ppp-2.4.5/pppd/plugins/radius/config.c
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ppp-2.4.5/pppd/plugins/radius/includes.h
ppp-2.4.5/pppd/plugins/radius/ip_util.c
ppp-2.4.5/pppd/plugins/radius/pathnames.h
ppp-2.4.5/pppd/plugins/radius/radiusclient.h
ppp-2.4.5/pppd/plugins/radius/sendserver.c
ppp-2.4.5/pppd/plugins/radius/util.c
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ppp-2.4.5/include/linux/if_pppol2tp.h
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* Linux PPP over L2TP (PPPoL2TP) Socket Implementation (RFC 2661)
*
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* (pppol2tp.c). All version information wrt this file is located in
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*   for Linux using kernel pppol2tp support.
*
* Requires kernel pppol2tp driver which is integrated into the kernel
* from 2.6.23 onwards. For earlier kernels, a version can be obtained
* from the OpenL2TP project at
* http://www.sourceforge.net/projects/openl2tp/
*
* Original by Martijn van Oosterhout <kleptog@svana.org>
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* Heavily based upon pppoatm.c: original notice follows
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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1.25 sed 4.2.2

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1. Source Code.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified
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1.31 bzip2 1.0.6

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1.32 ethtool 3.9

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1.33 libtool-libltdl 2.4.2

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1.34 dropbear 2013.58

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=====

loginrec.c
loginrec.h
atomicio.h
atomicio.c
and strlcat() (included in util.c) are from OpenSSH 3.6.1p2, and are licensed
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1.35 cracklib 2.9.1

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

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

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

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> > libraries under
> > GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> > -mike

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

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

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

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

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

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

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

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

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

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

yes. go for it. thanks++

-a

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

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

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

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

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

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

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

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500

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

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

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

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

Happy now? :-)

-a

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

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

Preamble

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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use
it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

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

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these

rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

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

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

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

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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that
you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

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

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

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

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

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

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

these notices.
^L
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.
^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.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses

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9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you
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^L
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1.36 bind 9.9.5

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* configure.ac, Makefile.am: The original versions were derived from the
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 Author: Julio Merino <jmmv@users.sourceforge.net>

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

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

 Author: Julio Merino <jmmv84@gmail.com>

==
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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

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

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
  <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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   purpose with or without fee is hereby granted, provided that the above
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    PERFORMANCE OF THIS SOFTWARE.
  </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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1.37 unzip 6.0

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

- -

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

All remaining
code is now (starting with UnZip version 5.41) covered
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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

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

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip
5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
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For pathologic cases where support for reduced archive entries is
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cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code
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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)
  * Copyright  1992-1998
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  *
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```

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```
  *  MacBinaryIII.h
  *
  *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  *  Basic encoding and decoding of Macintosh files to the
  *  MacBinary III spec.
  * ------------------------------------------------------------------------
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  * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
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```

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```
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```

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

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

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

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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```
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```

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```
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
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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
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more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
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1.38 free-type 2.5.3

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1.39 ncurses 5.9

1.39.1 Available under license :

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1.40 ipmi-tool 1.8.9

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1.42 httpfs2 0.1.4

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* But how can you access the original folder after the mount?
* Answer comes from FuseCompress:
* Open the folder before the mount,
* keep it open all the time,
* make a chdir to it
* and always use a relative path.
* It suffices not to chdir in main() and it's unnecessary to
* do it in every function. httpfs_init is the right place.
*
*/
Authors:
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1.45 ini-parser 3.0

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1.47 dhcp 4.3.0

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was
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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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

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

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

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

```
 </xsl:variable>

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

</xsl:stylesheet>

<!--

 - Local variables:
 - mode: sgml
 - End:
-->
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1.49 libpcap 1.7.3

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1.50 glibc 2.19

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1.52 pam 1.2.1

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1.53 apache-http-server 2.4.16

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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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install - install a program, script, or datafile
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Thanks to the following people for their input:
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*/
```

For the srclib\apr-util\xml\expat\conftools\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:

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

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

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

*/

For the expat xml parser component:

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

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

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

 (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write(' Comments are disabled for this page at the moment.<\/div>');
  }
})(window, document);
//--><!]]></script>
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1.63 sudo 1.8.6p7 16.el7

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1.65 bash 4.2.46 20.el7_2

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

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

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

es frobs in that file.

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

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

John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for

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

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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
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addressed when the Modified BSD
license was created, which does not have the
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libcurl http://curl.haxx.se/docs/copyright.html

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

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> 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/

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

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axTLS http://axtls.sourceforge.net/

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

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

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

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

krb4

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

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

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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/

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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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1.69 dhcp 4.2.5 42.el7.centos

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

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

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

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

 Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.70 dmidecode 2.12 9.el7

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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*

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This package was added to the e2fsprogs debian source package by
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Theodore Ts'o
23-June-2007

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

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

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

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

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

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

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1.72 elfutils 0.163 3.el7

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1.77 glib 2.42.2 5.el7

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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Version 2.1, February 1999

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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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"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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of any change.

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charge to all third parties under the terms of this License.

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

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

These
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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
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In addition, mere aggregation of another work not based on the Library
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Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

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

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

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
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However, linking a "work that uses the Library" with the Library
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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data

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

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

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

e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
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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.

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

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility
programs needed for
reproducing the executable from it. However, as a special exception,
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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1.89 lua 5.1.4 14.el7

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1.90 net-tools 2.0 0.17.20131004git.el7

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*
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 *
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1.97 sed 4.2.2 5.el7

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1.101 unzip 6.0 15.el7

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FIRST NOTE:
This file contains some details about the copyright history of
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Additionally, it summarises some exceptions to the general BSD-like
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the system specific ports.
Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

- -

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

All remaining
code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the acompaning
file LICENSE. The terms and conditions in this license supersede the
copyright conditions of the contributions by Igor Mandrichenko
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion

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replace their copyright notes by the Info-ZIP License.

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

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

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

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

```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
  * (Apple Macintosh Developer Technical Support Emeritus)
  * Copyright  1992-1998
```

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  * Portions copyright 1995 Jim Luther
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  * license terms:
  *
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 The following
copyright applies to the Mac OS "macbin3" decoding code
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  * MacBinaryIII.h
  *
  * Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  * Basic encoding and decoding of Macintosh files to the
  * MacBinary III spec.
  * --
  * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
  * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
  * homepage of Leonard Rosenthol leonardr@netcom.com)

This copyright note does not contain any usage terms. So, we assume
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The following copyright applies to the full-featured unreduce.c
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```
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```

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

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

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

Note that the third and fourth stipulations still apply to any com-
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* code. (Other names may, of course, be added as modifications
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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.

1.102 vim 7.4.160 1.el7

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


    VIM REFERENCE MANUAL    by Bram Moolenaar


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```

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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.

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

1.103 xz 5.1.2 12alpha.el7

1.103.1 Available under license :

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==========

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1.104 zip 3.0 10.el7

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1.105 zlib 1.2.7 15.el7

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1.106 util-linux 2.23.2 26.el7_2.3

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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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1.112 pam 1.1.8 12.el7_1.1

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1.113 rsyslog 7.4.7 12.el7

1.113.1 Available under license :

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1.114 openssl 1.0.2j

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1.115 sqlite 3.14.2

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1.116 glibc 2.24

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1.117 pam 1.3.0

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1.118 libpcap 1.8.1

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1.119 python 2.7.12

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""" robotparser.py

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

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

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

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

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*/
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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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http://www.math.keio.ac.jp/matumoto/emt.html
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*/
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==========

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1		2001-now	PSF	yes

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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
#
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#
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--
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#
#   --  Gregory P. Smith <greg@krypto.org>
#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $
# Original version written by Greg Stein (gstein@lyra.org)
#                         and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
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  A C-program for MT19937, with initialization improved 2002/1/26.
  Coded by Takuji Nishimura and Makoto Matsumoto.

  Before using, initialize the state by using init_genrand(seed)
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Sockets

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

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

Asynchronous socket services

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

XML Remote Procedure Calls

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Select kqueue

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Jean-loup Gailly Mark Adler
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1.130 curl 7.54.1

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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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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;
}
```

1.132 libsm 1.2.2

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1.133 readline 6.3

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/* number.c: Implements arbitrary precision numbers. */
/*
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***/

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

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

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

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

static bc_num _bc_Free_list = NULL;

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

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

```
 bc_num temp;

 if (_bc_Free_list != NULL) {
   temp = _bc_Free_list;
   _bc_Free_list = temp->n_next;
  } else {
   temp = (bc_num) malloc (sizeof(bc_struct));
   if (temp == NULL) bc_out_of_memory ();
 }
 temp->n_sign = PLUS;
 temp->n_len = length;
 temp->n_scale = scale;
 temp->n_refs = 1;
 temp->n_ptr = (char *) malloc (length+scale);
 if (temp->n_ptr == NULL) bc_out_of_memory();
 temp->n_value = temp->n_ptr;
 memset (temp->n_ptr, 0, length+scale);
 return temp;
}

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

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


/* Intitialize the number package! */

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

```
 _two_->n_value[0] = 2;
}


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

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


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

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

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

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


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

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
```

```
   int use_sign;
   int ignore_last;
{
 char *n1ptr, *n2ptr;
 int  count;

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

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

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

 while ((count > 0) && (*n1ptr == *n2ptr))
   {
    n1ptr++;
    n2ptr++;
    count--;
```

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

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

```
    return (1);
      }
 }
  }

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


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

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

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

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

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

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

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

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

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

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

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

char
bc_is_near_zero (num, scale)
     bc_num num;
     int scale;
{
 int  count;
 char *nptr;

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

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

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

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


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

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

```
int carry, n1bytes, n2bytes;
int count;

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

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

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

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

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

```
 carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
  }

 /* Now add carry the
 longer integer part. */
 if (n1bytes == 0)
  { n1bytes = n2bytes; n1ptr = n2ptr; }
 while (n1bytes-- > 0)
  {
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
 {
   carry = 1;
   *sumptr -= BASE;
 }
    else
 carry = 0;
    sumptr--;
  }

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

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


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

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

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

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

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

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

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

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

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

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

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

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


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

void
bc_sub (n1, n2, result, scale_min)

     bc_num n1, n2, *result;
     int scale_min;
```

```
{
 bc_num diff = NULL;
 int cmp_res;
 int res_scale;

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

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


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

void
```

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

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

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

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

```
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

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

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

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

 prodlen = n1len+n2len+1;

 *prod = bc_new_num (prodlen, 0);

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

 /* Here is the loop... */
```

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


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

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

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

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

```
    *accp -= carry;
    if (*accp < 0)
*accp-- += BASE;
    else
carry = 0;
  }
 } else {
  /* Addition */
  while (count--) {
    *accp += *valp-- + carry;
    if (*accp > (BASE-1)) {
carry = 1;
      *accp-- -= BASE;
    } else {
carry = 0;
accp--;
    }
  }
  while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
*accp--
-= BASE;
    else
carry = 0;
  }
 }
}

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

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

 /* Base case? */
```

```
if ((ulen+vlen) < mul_base_digits
    || ulen < MUL_SMALL_DIGITS
    || vlen < MUL_SMALL_DIGITS ) {
  _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
  return;
}

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

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

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

/* Calculate sub results ... */

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



/* Do recursive multiplies and shifted adds. */
if (m1zero)
  m1 = bc_copy_num (_zero_);
```

```
 else
   _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

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

 if (bc_is_zero(u0) || bc_is_zero(v0))
   m3 = bc_copy_num (_zero_);
 else
   _bc_rec_mul
(u0, u0->n_len, v0, v0->n_len, &m3, 0);

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

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

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

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

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
 bc_num pval;
```

```
 int len1, len2;
 int full_scale, prod_scale;

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

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

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

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

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

 if (digit == 0)
   memset (result, 0, size);
 else
   {
     if
 (digit == 1)
 memcpy (result, num, size);
     else
 {
```

```
  /* Initialize */
  nptr = (unsigned char *) (num+size-1);
  rptr = (unsigned char *) (result+size-1);
  carry = 0;

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

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



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

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

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

 /* Test for divide by 1.  If it is we must truncate. */
 if (n2->n_scale == 0)
   {
     if (n2->n_len == 1 && *n2->n_value == 1)
 {
   qval = bc_new_num (n1->n_len, scale);
```

```
  qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
  memset (&qval->n_value[n1->n_len],0,scale);
  memcpy (qval->n_value, n1->n_value,
   n1->n_len + MIN(n1->n_scale,scale));
  bc_free_num (quot);
  *quot = qval;
}
  }

/* Set up the divide.  Move the decimal point on n1 by n2's scale.
   Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

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

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

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

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

```
    if (len2>len1)
qdigits = scale+1;   /* One for the zero integer part. */
    else
qdigits = len1-len2+scale+1;
  }

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

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

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

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

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

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

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

 /* Multiply and subtract. */
 borrow = 0;
 if (qguess != 0)
   {
    *mval = 0;
    _one_mult (n2ptr, len2, qguess, mval+1);

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

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

```
 }
     if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
    }

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

 /* Clean up and return the number. */
 qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
 if (bc_is_zero (qval)) qval->n_sign
 = PLUS;
 _bc_rm_leading_zeros (qval);
 bc_free_num (quot);
 *quot = qval;

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

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


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

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

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

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

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

 if (quot)
   {
     bc_free_num (quot);
      *quot = quotient;
   }

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


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

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

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

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

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

 /* Set initial values.  */
 power = bc_copy_num (base);
 exponent = bc_copy_num (expo);
```

```
 temp = bc_copy_num (_one_);
 bc_init_num(&parity);

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

 /* Check
 the exponent for scale digits. */
 if (exponent->n_scale != 0)
   {
    bc_rt_warn ("non-zero scale in exponent");
    bc_divide (exponent, _one_, &exponent, 0); /*truncate */
   }

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

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

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

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

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

void
```

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

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

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

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

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

```
 temp = bc_copy_num (power);
 calcscale = pwrscale;
 exponent = exponent >> 1;

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

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

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

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

 /* Initial checks. */
 cmp_res = bc_compare (*num, _zero_);
 if (cmp_res < 0)
```

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

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


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

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

```
 /* Find the square root using Newton's algorithm. */
 done = FALSE;
 while (!done)
   {
     bc_free_num (&guess1);
     guess1 = bc_copy_num (guess);
     bc_divide (*num, guess, &guess, cscale);
     bc_add (guess, guess1, &guess, 0);
     bc_multiply (guess, point5, &guess, cscale);
     bc_sub (guess, guess1, &diff, cscale+1);
     if (bc_is_near_zero (diff, cscale))
 {
   if (cscale < rscale+1)
     cscale = MIN (cscale*3, rscale+1);
   else
     done = TRUE;
 }
   }

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


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

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

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


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

```
void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
 char digits[40];
 int len, ix;

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

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

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

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

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

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

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

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

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

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

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

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

```
    }

   bc_free_num (&t_num);
  }

 /* Clean up. */
 bc_free_num (&int_part);
 bc_free_num (&frac_part);
 bc_free_num (&base);
 bc_free_num (&cur_dig);
 bc_free_num (&max_o_digit);
    }
}
/* Convert a number NUM to a long.  The function returns only the integer
  part of the number.  For numbers that are too large to represent as
  a long, this function returns a zero.  This can be detected by checking
  the NUM for zero after having a zero returned. */

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

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

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

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



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

void
bc_int2num
```

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

 /* Sign. */
 if (val < 0)
   {
     neg = 1;
     val = -val;
   }

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

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

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

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

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

char
*num2str (num)
     bc_num num;
{
 char *str, *sptr;
 char *nptr;
```

```
 int  index, signch;

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

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

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

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

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

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

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

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

 /* Check for valid number and count digits. */
```

```
ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ( (*ptr == '+') || (*ptr == '-'))  ptr++;  /* Sign */
while (*ptr == '0') ptr++;   /* Skip
leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
if (*ptr == '.') ptr++;   /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*ptr != '\0') || (digits+strscale == 0))
  {
    *num = bc_copy_num (_zero_);
    return;
  }

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

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

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

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

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



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



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

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1.139 libxml 2.9.1-6.el7_2.3

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1.140 acl 2.2.51 12.el7

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1.141 pcre 8.40

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Written by: Philip Hazel
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1.142 openssl 1.0.2l

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1.144 diffutils 3.3-4.el7

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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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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,
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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
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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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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,

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

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1.146 ncurses 5.9-13.20130511.el7

1.146.1 Available under license :

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

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

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1.147 inetutils 1.9.4

1.147.1 Available under license :

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1.151 libmnl 1.0.4

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1.152 openssl 1.0.2k

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1.155 cracklib 2.9.0 11.el7

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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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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.)

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

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

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

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

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

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

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

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

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

Random Hacker.

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

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

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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

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Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after

consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

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

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

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

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

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

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

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

Attachments: Message as HTML

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

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

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

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
>
Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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>=20
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt
the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would
like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

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

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

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

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

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

yes. go for it. thanks++

-a

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

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

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

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

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

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

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct
 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
 RO
Content-Length: 585
Lines: 21

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

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

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

Happy now? :-)

-a

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

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

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

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

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

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

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

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

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

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

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

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
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> directly
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>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

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

> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

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

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

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

yes. go for it. thanks++

-a

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

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

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

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

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

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

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

From
 alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com

X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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

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

Happy now? :-)

-a

1.156 sqlite 3.23.1

1.156.1 Available under license :

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a legal notice, here is a blessing:

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

1.157 qemu 2.4.0

1.157.1 Available under license :

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driver)is copyrighted by me and others who actually wrote it.

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Stefan Reinauer

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```
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```

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

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

#define TARGET_NETBSD_NR_syscall   0
#define TARGET_NETBSD_NR_exit   1
#define TARGET_NETBSD_NR_fork   2
#define TARGET_NETBSD_NR_read   3

```
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat    8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek    19
#define TARGET_NETBSD_NR_getpid      20
#define
 TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_compat_40_mount     21
#define TARGET_NETBSD_NR_unmount     22
#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid     25
#define TARGET_NETBSD_NR_ptrace      26
#define TARGET_NETBSD_NR_recvmsg     27
#define TARGET_NETBSD_NR_sendmsg     28
#define TARGET_NETBSD_NR_recvfrom    29
#define TARGET_NETBSD_NR_accept      30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access      33
#define TARGET_NETBSD_NR_chflags     34
#define TARGET_NETBSD_NR_fchflags    35
#define TARGET_NETBSD_NR_sync        36
#define TARGET_NETBSD_NR_kill        37
#define TARGET_NETBSD_NR_compat_43_stat43    38
#define TARGET_NETBSD_NR_getppid     39
#define TARGET_NETBSD_NR_compat_43_lstat43   40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe        42
#define TARGET_NETBSD_NR_getegid
   43
#define TARGET_NETBSD_NR_profil      44
#define TARGET_NETBSD_NR_ktrace      45
#define TARGET_NETBSD_NR_compat_13_sigaction13       46
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_getgid      47
```

```
#define TARGET_NETBSD_NR_compat_13_sigprocmask13    48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct       51
#define TARGET_NETBSD_NR_compat_13_sigpending13     52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13    53
#define TARGET_NETBSD_NR_ioctl      54
#define TARGET_NETBSD_NR_compat_12_oreboot   55
#define TARGET_NETBSD_NR_revoke     56
#define TARGET_NETBSD_NR_symlink    57
#define TARGET_NETBSD_NR_readlink   58
#define TARGET_NETBSD_NR_execve     59
#define TARGET_NETBSD_NR_umask      60
#define TARGET_NETBSD_NR_chroot     61
#define TARGET_NETBSD_NR_compat_43_fstat43   62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo     63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize
 64
#define TARGET_NETBSD_NR_compat_12_msync    65
#define TARGET_NETBSD_NR_vfork      66
#define TARGET_NETBSD_NR_sbrk       69
#define TARGET_NETBSD_NR_sstk       70
#define TARGET_NETBSD_NR_compat_43_ommap    71
#define TARGET_NETBSD_NR_vadvise    72
#define TARGET_NETBSD_NR_munmap     73
#define TARGET_NETBSD_NR_mprotect   74
#define TARGET_NETBSD_NR_madvise    75
#define TARGET_NETBSD_NR_mincore    78
#define TARGET_NETBSD_NR_getgroups   79
#define TARGET_NETBSD_NR_setgroups   80
#define TARGET_NETBSD_NR_getpgrp    81
#define TARGET_NETBSD_NR_setpgid    82
#define TARGET_NETBSD_NR_setitimer   83
#define TARGET_NETBSD_NR_compat_43_owait    84
#define TARGET_NETBSD_NR_compat_12_oswapon   85
#define TARGET_NETBSD_NR_getitimer   86
#define TARGET_NETBSD_NR_compat_43_ogethostname     87
#define TARGET_NETBSD_NR_compat_43_osethostname     88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize   89
#define TARGET_NETBSD_NR_dup2       90
#define TARGET_NETBSD_NR_fcntl
 92
#define TARGET_NETBSD_NR_select     93
#define TARGET_NETBSD_NR_fsync      95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket   97
#define TARGET_NETBSD_NR_connect    98
#define TARGET_NETBSD_NR_compat_43_oaccept   99
```

```
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend     101
#define TARGET_NETBSD_NR_compat_43_orecv     102
#define TARGET_NETBSD_NR_compat_13_sigreturn13       103
#define TARGET_NETBSD_NR_bind        104
#define TARGET_NETBSD_NR_setsockopt  105
#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_osigvec   108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask       110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13      111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg  113
#define TARGET_NETBSD_NR_compat_43_osendmsg  114
#define TARGET_NETBSD_NR_gettimeofday        116
#define TARGET_NETBSD_NR_getrusage
  117
#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_writev      121
#define TARGET_NETBSD_NR_settimeofday        122
#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod      124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid    126
#define TARGET_NETBSD_NR_setregid    127
#define TARGET_NETBSD_NR_rename      128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate        130
#define TARGET_NETBSD_NR_flock       131
#define TARGET_NETBSD_NR_mkfifo      132
#define TARGET_NETBSD_NR_sendto      133
#define TARGET_NETBSD_NR_shutdown    134
#define TARGET_NETBSD_NR_socketpair  135
#define TARGET_NETBSD_NR_mkdir       136
#define TARGET_NETBSD_NR_rmdir       137
#define TARGET_NETBSD_NR_utimes      138
#define TARGET_NETBSD_NR_adjtime     140
#define TARGET_NETBSD_NR_compat_43_ogetpeername      141
#define TARGET_NETBSD_NR_compat_43_ogethostid
      142
#define TARGET_NETBSD_NR_compat_43_osethostid        143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit        144
#define TARGET_NETBSD_NR_compat_43_osetrlimit        145
#define TARGET_NETBSD_NR_compat_43_okillpg   146
#define TARGET_NETBSD_NR_setsid      147
#define TARGET_NETBSD_NR_quotactl    148
#define TARGET_NETBSD_NR_compat_43_oquota    149
```

```
#define TARGET_NETBSD_NR_compat_43_ogetsockname      150
#define TARGET_NETBSD_NR_nfssvc      155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries    156
#define TARGET_NETBSD_NR_compat_20_statfs    157
#define TARGET_NETBSD_NR_compat_20_fstatfs   158
#define TARGET_NETBSD_NR_compat_30_getfh     161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname    162
#define TARGET_NETBSD_NR_compat_09_osetdomainname    163
#define TARGET_NETBSD_NR_compat_09_ouname    164
#define TARGET_NETBSD_NR_sysarch     165
#define TARGET_NETBSD_NR_compat_10_osemsys   169
#define TARGET_NETBSD_NR_compat_10_omsgsys   170
#define
 TARGET_NETBSD_NR_compat_10_oshmsys   171
#define TARGET_NETBSD_NR_pread       173
#define TARGET_NETBSD_NR_pwrite      174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime       175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid      181
#define TARGET_NETBSD_NR_setegid     182
#define TARGET_NETBSD_NR_seteuid     183
#define TARGET_NETBSD_NR_lfs_bmapv   184
#define TARGET_NETBSD_NR_lfs_markv   185
#define TARGET_NETBSD_NR_lfs_segclean        186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12    188
#define TARGET_NETBSD_NR_compat_12_fstat12   189
#define TARGET_NETBSD_NR_compat_12_lstat12   190
#define TARGET_NETBSD_NR_pathconf    191
#define TARGET_NETBSD_NR_fpathconf   192
#define TARGET_NETBSD_NR_getrlimit   194
#define TARGET_NETBSD_NR_setrlimit   195
#define TARGET_NETBSD_NR_compat_12_getdirentries     196
#define TARGET_NETBSD_NR_mmap        197
#define TARGET_NETBSD_NR___syscall   198
#define TARGET_NETBSD_NR_lseek
     199
#define TARGET_NETBSD_NR_truncate    200
#define TARGET_NETBSD_NR_ftruncate   201
#define TARGET_NETBSD_NR___sysctl    202
#define TARGET_NETBSD_NR_mlock       203
#define TARGET_NETBSD_NR_munlock     204
#define TARGET_NETBSD_NR_undelete    205
#define TARGET_NETBSD_NR_futimes     206
#define TARGET_NETBSD_NR_getpgid     207
#define TARGET_NETBSD_NR_reboot      208
#define TARGET_NETBSD_NR_poll        209
#define TARGET_NETBSD_NR_compat_14___semctl  220
```

```
#define TARGET_NETBSD_NR_semget      221
#define TARGET_NETBSD_NR_semop       222
#define TARGET_NETBSD_NR_semconfig   223
#define TARGET_NETBSD_NR_compat_14_msgctl    224
#define TARGET_NETBSD_NR_msgget      225
#define TARGET_NETBSD_NR_msgsnd      226
#define TARGET_NETBSD_NR_msgrcv      227
#define TARGET_NETBSD_NR_shmat       228
#define TARGET_NETBSD_NR_compat_14_shmctl    229
#define TARGET_NETBSD_NR_shmdt       230
#define TARGET_NETBSD_NR_shmget      231
#define TARGET_NETBSD_NR_clock_gettime       232
#define TARGET_NETBSD_NR_clock_settime
    233
#define TARGET_NETBSD_NR_clock_getres        234
#define TARGET_NETBSD_NR_timer_create        235
#define TARGET_NETBSD_NR_timer_delete        236
#define TARGET_NETBSD_NR_timer_settime       237
#define TARGET_NETBSD_NR_timer_gettime       238
#define TARGET_NETBSD_NR_timer_getoverrun    239
#define TARGET_NETBSD_NR_nanosleep   240
#define TARGET_NETBSD_NR_fdatasync   241
#define TARGET_NETBSD_NR_mlockall    242
#define TARGET_NETBSD_NR_munlockall  243
#define TARGET_NETBSD_NR___sigtimedwait      244
#define TARGET_NETBSD_NR_modctl      246
#define TARGET_NETBSD_NR__ksem_init  247
#define TARGET_NETBSD_NR__ksem_open  248
#define TARGET_NETBSD_NR__ksem_unlink        249
#define TARGET_NETBSD_NR__ksem_close 250
#define TARGET_NETBSD_NR__ksem_post  251
#define TARGET_NETBSD_NR__ksem_wait  252
#define TARGET_NETBSD_NR__ksem_trywait       253
#define TARGET_NETBSD_NR__ksem_getvalue      254
#define TARGET_NETBSD_NR__ksem_destroy       255
#define TARGET_NETBSD_NR_mq_open
   257
#define TARGET_NETBSD_NR_mq_close    258
#define TARGET_NETBSD_NR_mq_unlink   259
#define TARGET_NETBSD_NR_mq_getattr  260
#define TARGET_NETBSD_NR_mq_setattr  261
#define TARGET_NETBSD_NR_mq_notify   262
#define TARGET_NETBSD_NR_mq_send     263
#define TARGET_NETBSD_NR_mq_receive  264
#define TARGET_NETBSD_NR_mq_timedsend        265
#define TARGET_NETBSD_NR_mq_timedreceive     266
#define TARGET_NETBSD_NR___posix_rename      270
#define TARGET_NETBSD_NR_swapctl     271
```

```
#define TARGET_NETBSD_NR_compat_30_getdents  272
#define TARGET_NETBSD_NR_minherit    273
#define TARGET_NETBSD_NR_lchmod      274
#define TARGET_NETBSD_NR_lchown      275
#define TARGET_NETBSD_NR_lutimes     276
#define TARGET_NETBSD_NR___msync13   277
#define TARGET_NETBSD_NR_compat_30___stat13  278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14     281
#define TARGET_NETBSD_NR___vfork14   282
#define
 TARGET_NETBSD_NR___posix_chown       283
#define TARGET_NETBSD_NR___posix_fchown      284
#define TARGET_NETBSD_NR___posix_lchown      285
#define TARGET_NETBSD_NR_getsid      286
#define TARGET_NETBSD_NR___clone     287
#define TARGET_NETBSD_NR_fktrace     288
#define TARGET_NETBSD_NR_preadv      289
#define TARGET_NETBSD_NR_pwritev     290
#define TARGET_NETBSD_NR_compat_16___sigaction14     291
#define TARGET_NETBSD_NR___sigpending14      292
#define TARGET_NETBSD_NR___sigprocmask14     293
#define TARGET_NETBSD_NR___sigsuspend14      294
#define TARGET_NETBSD_NR_compat_16___sigreturn14     295
#define TARGET_NETBSD_NR___getcwd    296
#define TARGET_NETBSD_NR_fchroot     297
#define TARGET_NETBSD_NR_compat_30_fhopen    298
#define TARGET_NETBSD_NR_compat_30_fhstat    299
#define TARGET_NETBSD_NR_compat_20_fhstatfs  300
#define TARGET_NETBSD_NR_____semctl13        301
#define TARGET_NETBSD_NR___msgctl13  302
#define TARGET_NETBSD_NR___shmctl13  303
#define TARGET_NETBSD_NR_lchflags
   304
#define TARGET_NETBSD_NR_issetugid   305
#define TARGET_NETBSD_NR_utrace      306
#define TARGET_NETBSD_NR_getcontext  307
#define TARGET_NETBSD_NR_setcontext  308
#define TARGET_NETBSD_NR__lwp_create 309
#define TARGET_NETBSD_NR__lwp_exit   310
#define TARGET_NETBSD_NR__lwp_self   311
#define TARGET_NETBSD_NR__lwp_wait   312
#define TARGET_NETBSD_NR__lwp_suspend        313
#define TARGET_NETBSD_NR__lwp_continue       314
#define TARGET_NETBSD_NR__lwp_wakeup 315
#define TARGET_NETBSD_NR__lwp_getprivate     316
#define TARGET_NETBSD_NR__lwp_setprivate     317
```

```
#define TARGET_NETBSD_NR__lwp_kill   318
#define TARGET_NETBSD_NR__lwp_detach 319
#define TARGET_NETBSD_NR__lwp_park   320
#define TARGET_NETBSD_NR__lwp_unpark 321
#define TARGET_NETBSD_NR__lwp_unpark_all     322
#define TARGET_NETBSD_NR__lwp_setname        323
#define TARGET_NETBSD_NR__lwp_getname        324
#define TARGET_NETBSD_NR__lwp_ctl    325
#define TARGET_NETBSD_NR_sa_register 330
#define TARGET_NETBSD_NR_sa_stacks
  331
#define TARGET_NETBSD_NR_sa_enable   332
#define TARGET_NETBSD_NR_sa_setconcurrency   333
#define TARGET_NETBSD_NR_sa_yield    334
#define TARGET_NETBSD_NR_sa_preempt  335
#define TARGET_NETBSD_NR_sa_unblockyield     336
#define TARGET_NETBSD_NR___sigaction_sigtramp        340
#define TARGET_NETBSD_NR_pmc_get_info        341
#define TARGET_NETBSD_NR_pmc_control 342
#define TARGET_NETBSD_NR_rasctl      343
#define TARGET_NETBSD_NR_kqueue      344
#define TARGET_NETBSD_NR_kevent      345
#define TARGET_NETBSD_NR__sched_setparam     346
#define TARGET_NETBSD_NR__sched_getparam     347
#define TARGET_NETBSD_NR__sched_setaffinity  348
#define TARGET_NETBSD_NR__sched_getaffinity  349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuidgen     355
#define TARGET_NETBSD_NR_getvfsstat  356
#define TARGET_NETBSD_NR_statvfs1    357
#define TARGET_NETBSD_NR_fstatvfs1   358
#define TARGET_NETBSD_NR_compat_30_fhstatvfs1        359
#define
 TARGET_NETBSD_NR_extattrctl  360
#define TARGET_NETBSD_NR_extattr_set_file    361
#define TARGET_NETBSD_NR_extattr_get_file    362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd      364
#define TARGET_NETBSD_NR_extattr_get_fd      365
#define TARGET_NETBSD_NR_extattr_delete_fd   366
#define TARGET_NETBSD_NR_extattr_set_link    367
#define TARGET_NETBSD_NR_extattr_get_link    368
#define TARGET_NETBSD_NR_extattr_delete_link 369
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```
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* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
            /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink    10
            /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir    13
#define TARGET_FREEBSD_NR_mknod 14
```

```
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat    18
        /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid    20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount   22
#define TARGET_FREEBSD_NR_setuid
   23
#define TARGET_FREEBSD_NR_getuid    24
#define TARGET_FREEBSD_NR_geteuid   25
#define TARGET_FREEBSD_NR_ptrace    26
#define TARGET_FREEBSD_NR_recvmsg   27
#define TARGET_FREEBSD_NR_sendmsg   28
#define TARGET_FREEBSD_NR_recvfrom  29
#define TARGET_FREEBSD_NR_accept    30
#define TARGET_FREEBSD_NR_getpeername   31
#define TARGET_FREEBSD_NR_getsockname   32
#define TARGET_FREEBSD_NR_access    33
#define TARGET_FREEBSD_NR_chflags   34
#define TARGET_FREEBSD_NR_fchflags  35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
        /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid   39
        /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup   41
#define TARGET_FREEBSD_NR_pipe  42
#define TARGET_FREEBSD_NR_getegid   43
#define TARGET_FREEBSD_NR_profil    44
#define TARGET_FREEBSD_NR_ktrace    45
        /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid    47
        /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin
 49
#define TARGET_FREEBSD_NR_setlogin  50
#define TARGET_FREEBSD_NR_acct  51
        /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack   53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot    55
#define TARGET_FREEBSD_NR_revoke    56
#define TARGET_FREEBSD_NR_symlink   57
#define TARGET_FREEBSD_NR_readlink  58
#define TARGET_FREEBSD_NR_execve    59
#define TARGET_FREEBSD_NR_umask 60
```

```
#define TARGET_FREEBSD_NR_chroot    61
        /* 62 is old fstat */
        /* 63 is old getkerninfo */
        /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
        /* 67 is obsolete vread */
        /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk  70
        /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise   72
#define TARGET_FREEBSD_NR_munmap    73
#define TARGET_FREEBSD_NR_mprotect  74
#define
 TARGET_FREEBSD_NR_madvise   75
        /* 76 is obsolete vhangup */
        /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore   78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp   81
#define TARGET_FREEBSD_NR_setpgid   82
#define TARGET_FREEBSD_NR_setitimer 83
        /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon    85
#define TARGET_FREEBSD_NR_getitimer 86
        /* 87 is old gethostname */
        /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select    93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority   96
#define TARGET_FREEBSD_NR_socket    97
#define TARGET_FREEBSD_NR_connect   98
        /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority   100
        /* 101 is old send */

    /* 102 is old recv */
        /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt    105
#define TARGET_FREEBSD_NR_listen    106
        /* 107 is obsolete vtimes */
        /* 108 is old sigvec */
```

```
        /* 109 is old sigblock */
        /* 110 is old sigsetmask */
        /* 111 is old sigsuspend */
        /* 112 is old sigstack */
        /* 113 is old recvmsg */
        /* 114 is old sendmsg */
        /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev    121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown    123
#define TARGET_FREEBSD_NR_fchmod    124
        /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid  126
#define TARGET_FREEBSD_NR_setregid
 127
#define TARGET_FREEBSD_NR_rename    128
        /* 129 is old truncate */
        /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo    132
#define TARGET_FREEBSD_NR_sendto    133
#define TARGET_FREEBSD_NR_shutdown  134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes    138
        /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime   140
        /* 141 is old getpeername */
        /* 142 is old gethostid */
        /* 143 is old sethostid */
        /* 144 is old getrlimit */
        /* 145 is old setrlimit */
        /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg    146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid    147
#define TARGET_FREEBSD_NR_quotactl  148
        /* 149 is old quota */
        /*
 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc    155
        /* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs   157
```

```
#define TARGET_FREEBSD_NR_freebsd4_fstatfs  158
#define TARGET_FREEBSD_NR_lgetfh    160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname    162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname    163
#define TARGET_FREEBSD_NR_freebsd4_uname    164
#define TARGET_FREEBSD_NR_sysarch   165
#define TARGET_FREEBSD_NR_rtprio    166
#define TARGET_FREEBSD_NR_semsys    169
#define TARGET_FREEBSD_NR_msgsys    170
#define TARGET_FREEBSD_NR_shmsys    171
#define TARGET_FREEBSD_NR_freebsd6_pread    173
#define TARGET_FREEBSD_NR_freebsd6_pwrite   174
#define TARGET_FREEBSD_NR_setfib    175
#define TARGET_FREEBSD_NR_ntp_adjtime   176
#define TARGET_FREEBSD_NR_setgid    181
#define TARGET_FREEBSD_NR_setegid   182
#define TARGET_FREEBSD_NR_seteuid   183
#define TARGET_FREEBSD_NR_stat
 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf  191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek    199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate    201
#define TARGET_FREEBSD_NR___sysctl  202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock   204
#define TARGET_FREEBSD_NR_undelete  205
#define TARGET_FREEBSD_NR_futimes   206
#define TARGET_FREEBSD_NR_getpgid   207
#define TARGET_FREEBSD_NR_poll  209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget    221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl   224
#define TARGET_FREEBSD_NR_msgget
   225
#define TARGET_FREEBSD_NR_msgsnd    226
#define TARGET_FREEBSD_NR_msgrcv    227
#define TARGET_FREEBSD_NR_shmat 228
```

```
#define TARGET_FREEBSD_NR_freebsd7_shmctl   229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget    231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres  234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime    237
#define TARGET_FREEBSD_NR_ktimer_gettime    238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime   248
#define TARGET_FREEBSD_NR_minherit  250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll  252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown    254
#define TARGET_FREEBSD_NR_aio_read  255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio
  257
#define TARGET_FREEBSD_NR_getdents  272
#define TARGET_FREEBSD_NR_lchmod    274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes   276
#define TARGET_FREEBSD_NR_netbsd_msync  277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat    279
#define TARGET_FREEBSD_NR_nlstat    280
#define TARGET_FREEBSD_NR_preadv    289
#define TARGET_FREEBSD_NR_pwritev   290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen    298
#define TARGET_FREEBSD_NR_fhstat    299
#define TARGET_FREEBSD_NR_modnext   300
#define TARGET_FREEBSD_NR_modstat   301
#define TARGET_FREEBSD_NR_modfnext  302
#define TARGET_FREEBSD_NR_modfind   303
#define TARGET_FREEBSD_NR_kldload   304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind   306
#define TARGET_FREEBSD_NR_kldnext   307
#define TARGET_FREEBSD_NR_kldstat   308
#define TARGET_FREEBSD_NR_kldfirstmod   309
#define TARGET_FREEBSD_NR_getsid
  310
#define TARGET_FREEBSD_NR_setresuid 311
```

```
#define TARGET_FREEBSD_NR_setresgid 312
        /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return    314
#define TARGET_FREEBSD_NR_aio_suspend   315
#define TARGET_FREEBSD_NR_aio_cancel    316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write    319
#define TARGET_FREEBSD_NR_olio_listio   320
#define TARGET_FREEBSD_NR_yield 321
        /* 322 is obsolete thr_sleep */
        /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall  324
#define TARGET_FREEBSD_NR_munlockall    325
#define TARGET_FREEBSD_NR___getcwd  326
#define TARGET_FREEBSD_NR_sched_setparam    327
#define TARGET_FREEBSD_NR_sched_getparam    328
#define TARGET_FREEBSD_NR_sched_setscheduler    329
#define TARGET_FREEBSD_NR_sched_getscheduler    330
#define TARGET_FREEBSD_NR_sched_yield   331
#define TARGET_FREEBSD_NR_sched_get_priority_max    332
#define
 TARGET_FREEBSD_NR_sched_get_priority_min    333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace    335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym    337
#define TARGET_FREEBSD_NR_jail  338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask   340
#define TARGET_FREEBSD_NR_sigsuspend    341
#define TARGET_FREEBSD_NR_freebsd4_sigaction    342
#define TARGET_FREEBSD_NR_sigpending    343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn    344
#define TARGET_FREEBSD_NR_sigtimedwait  345
#define TARGET_FREEBSD_NR_sigwaitinfo   346
#define TARGET_FREEBSD_NR___acl_get_file    347
#define TARGET_FREEBSD_NR___acl_set_file    348
#define TARGET_FREEBSD_NR___acl_get_fd  349
#define TARGET_FREEBSD_NR___acl_set_fd  350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd   352
#define TARGET_FREEBSD_NR___acl_aclcheck_file   353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd
 354
#define TARGET_FREEBSD_NR_extattrctl    355
#define TARGET_FREEBSD_NR_extattr_set_file  356
#define TARGET_FREEBSD_NR_extattr_get_file  357
```

```
#define TARGET_FREEBSD_NR_extattr_delete_file   358
#define TARGET_FREEBSD_NR_aio_waitcomplete  359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue    362
#define TARGET_FREEBSD_NR_kevent    363
#define TARGET_FREEBSD_NR_extattr_set_fd    371
#define TARGET_FREEBSD_NR_extattr_get_fd    372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess   376
#define TARGET_FREEBSD_NR_afs3_syscall  377
#define TARGET_FREEBSD_NR_nmount    378
#define TARGET_FREEBSD_NR___mac_get_proc    384
#define TARGET_FREEBSD_NR___mac_set_proc    385
#define TARGET_FREEBSD_NR___mac_get_fd  386
#define TARGET_FREEBSD_NR___mac_get_file    387
#define TARGET_FREEBSD_NR___mac_set_fd  388
#define TARGET_FREEBSD_NR___mac_set_file    389
#define
 TARGET_FREEBSD_NR_kenv  390
#define TARGET_FREEBSD_NR_lchflags  391
#define TARGET_FREEBSD_NR_uuidgen   392
#define TARGET_FREEBSD_NR_sendfile  393
#define TARGET_FREEBSD_NR_mac_syscall   394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs    396
#define TARGET_FREEBSD_NR_fstatfs   397
#define TARGET_FREEBSD_NR_fhstatfs  398
#define TARGET_FREEBSD_NR_ksem_close    400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait  403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink   406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy  408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link    410
#define TARGET_FREEBSD_NR___mac_set_link    411
#define TARGET_FREEBSD_NR_extattr_set_link  412
#define TARGET_FREEBSD_NR_extattr_get_link  413
#define TARGET_FREEBSD_NR_extattr_delete_link
  414
#define TARGET_FREEBSD_NR___mac_execve  415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
```

```
#define TARGET_FREEBSD_NR_getcontext    421
#define TARGET_FREEBSD_NR_setcontext    422
#define TARGET_FREEBSD_NR_swapcontext   423
#define TARGET_FREEBSD_NR_swapoff   424
#define TARGET_FREEBSD_NR___acl_get_link    425
#define TARGET_FREEBSD_NR___acl_set_link    426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link   428
#define TARGET_FREEBSD_NR_sigwait   429
#define TARGET_FREEBSD_NR_thr_create    430
#define TARGET_FREEBSD_NR_thr_exit  431
#define TARGET_FREEBSD_NR_thr_self  432
#define TARGET_FREEBSD_NR_thr_kill  433
#define TARGET_FREEBSD_NR__umtx_lock    434
#define TARGET_FREEBSD_NR__umtx_unlock  435
#define TARGET_FREEBSD_NR_jail_attach   436
#define TARGET_FREEBSD_NR_extattr_list_fd   437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define
 TARGET_FREEBSD_NR_ksem_timedwait    441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake  443
#define TARGET_FREEBSD_NR_kldunloadf    444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon   446
#define TARGET_FREEBSD_NR_getauid   447
#define TARGET_FREEBSD_NR_setauid   448
#define TARGET_FREEBSD_NR_getaudit  449
#define TARGET_FREEBSD_NR_setaudit  450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl  453
#define TARGET_FREEBSD_NR__umtx_op  454
#define TARGET_FREEBSD_NR_thr_new   455
#define TARGET_FREEBSD_NR_sigqueue  456
#define TARGET_FREEBSD_NR_kmq_open  457
#define TARGET_FREEBSD_NR_kmq_setattr   458
#define TARGET_FREEBSD_NR_kmq_timedreceive  459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify    461
#define TARGET_FREEBSD_NR_kmq_unlink    462
#define TARGET_FREEBSD_NR_abort2    463
#define TARGET_FREEBSD_NR_thr_set_name
  464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff  471
```

```
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg  472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov  473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg  474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite    476
#define TARGET_FREEBSD_NR_mmap  477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate  479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open  482
#define TARGET_FREEBSD_NR_shm_unlink    483
#define TARGET_FREEBSD_NR_cpuset    484
#define TARGET_FREEBSD_NR_cpuset_setid  485
#define TARGET_FREEBSD_NR_cpuset_getid  486
#define TARGET_FREEBSD_NR_cpuset_getaffinity    487
#define TARGET_FREEBSD_NR_cpuset_setaffinity    488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat  490
#define TARGET_FREEBSD_NR_fchownat  491
#define
 TARGET_FREEBSD_NR_fexecve   492
#define TARGET_FREEBSD_NR_fstatat   493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat    495
#define TARGET_FREEBSD_NR_mkdirat   496
#define TARGET_FREEBSD_NR_mkfifoat  497
#define TARGET_FREEBSD_NR_mknodat   498
#define TARGET_FREEBSD_NR_openat    499
#define TARGET_FREEBSD_NR_readlinkat    500
#define TARGET_FREEBSD_NR_renameat  501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat  503
#define TARGET_FREEBSD_NR_posix_openpt  504
#define TARGET_FREEBSD_NR_gssd_syscall  505
#define TARGET_FREEBSD_NR_jail_get  506
#define TARGET_FREEBSD_NR_jail_set  507
#define TARGET_FREEBSD_NR_jail_remove   508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl  510
#define TARGET_FREEBSD_NR_msgctl    511
#define TARGET_FREEBSD_NR_shmctl    512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new   514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter
 516
#define TARGET_FREEBSD_NR_cap_getmode   517
```

```
#define TARGET_FREEBSD_NR_pdfork    518
#define TARGET_FREEBSD_NR_pdkill    519
#define TARGET_FREEBSD_NR_pdgetpid  520
#define TARGET_FREEBSD_NR_pselect   522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct    525
#define TARGET_FREEBSD_NR_rctl_get_rules    526
#define TARGET_FREEBSD_NR_rctl_get_limits   527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule  529
#define TARGET_FREEBSD_NR_posix_fallocate   530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL    532
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Ty Coon, President of Vice

That's all there is to it!
All the files in this directory and subdirectories are released under
a BSD like license (see header in each file). No other license is

```
accepted.
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+         x86emu_dump_xregs();
+ } else {
+         x86emu_dump_regs();
+ }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
      printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-    printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

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

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

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

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
```

```
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
-   push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+    if (cond) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2526,6 +2534,8 @@
       store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
```

```
   END_OF_INSTR();
@@ -2559,9 +2569,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+          M.x86.R_ECX = 0;
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2574,6 +2586,8 @@
      }
      M.x86.R_SI += inc;
      M.x86.R_DI += inc;
+      if (M.x86.intr & INTR_HALTED)
+          break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2598,16 +2612,21 @@

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

```
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2644,8 +2663,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
         }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_SI += inc;
         M.x86.R_DI += inc;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2741,11 +2765,16 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /*
 move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
```

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

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

```
            break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
            M.x86.R_AX = fetch_data_word(M.x86.R_SI);
        }
        M.x86.R_SI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
        inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
 REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
```

```
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

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

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

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

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

```
   cs = fetch_word_imm();
   DECODE_PRINTF2("%04x:", cs);
   DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = ip;
   M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
   offset = (s8)fetch_byte_imm();
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
   TRACE_AND_STEP();
   M.x86.R_IP = target;
   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
   DECODE_PRINTF("REPNE\n");
   TRACE_AND_STEP();
   M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
 }
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
 }
@@ -5013,12 +5093,14 @@
           break;
       case 4:         /* jmp word ptr ... */
           destval = fetch_data_word(destoffset);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           break;
       case 5:         /* jmp far ptr ... */
           destval = fetch_data_word(destoffset);
           destval2 = fetch_data_word(destoffset + 2);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           M.x86.R_CS = destval2;
```

```
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

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

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

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

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

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

```
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

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

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

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

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

- outl(val, addr);
 return;
}

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

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
```

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

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

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

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

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

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

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

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

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

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```
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#!/bin/bash

#set -x
#set -e

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

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

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

```
if [ ! -r $DIFF_FILE ]; then
 echo "diff file $DIFF_FILE not found!"
 exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

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

echo "Copying files..."

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

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff


echo "done"
exit 0
```

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Version 3, 29 June 2007

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

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

#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7

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

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

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

#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

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

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

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

#define TARGET_OPENBSD_MAP_FLAGMASK   0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK   0x3ff7
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```
# Default configuration for sparc-bsd-user
/*      $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $      */
/*      $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $   */

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

#define TARGET_EPERM            1               /* Operation not permitted */
```

```
#define TARGET_ENOENT          2            /* No such file or directory */
#define TARGET_ESRCH           3            /* No such process */
#define TARGET_EINTR           4            /* Interrupted system call */
#define TARGET_EIO             5            /* Input/output error */
#define TARGET_ENXIO           6            /* Device not configured */
#define TARGET_E2BIG           7            /* Argument list too long */
#define TARGET_ENOEXEC         8            /* Exec format error */
#define TARGET_EBADF           9            /* Bad file descriptor */
#define TARGET_ECHILD          10           /* No child processes */
#define TARGET_EDEADLK         11           /* Resource deadlock avoided */
                               /* 11 was EAGAIN */
#define
 TARGET_ENOMEM          12           /* Cannot allocate memory */
#define TARGET_EACCES          13           /* Permission denied */
#define TARGET_EFAULT          14           /* Bad address */
#define TARGET_ENOTBLK         15           /* Block device required */
#define TARGET_EBUSY           16           /* Device busy */
#define TARGET_EEXIST          17           /* File exists */
#define TARGET_EXDEV           18           /* Cross-device link */
#define TARGET_ENODEV          19           /* Operation not supported by device */
#define TARGET_ENOTDIR         20           /* Not a directory */
#define TARGET_EISDIR          21           /* Is a directory */
#define TARGET_EINVAL          22           /* Invalid argument */
#define TARGET_ENFILE          23           /* Too many open files in system */
#define TARGET_EMFILE          24           /* Too many open files */
#define TARGET_ENOTTY          25           /*
 Inappropriate ioctl for device */
#define TARGET_ETXTBSY         26           /* Text file busy */
#define TARGET_EFBIG           27           /* File too large */
#define TARGET_ENOSPC          28           /* No space left on device */
#define TARGET_ESPIPE          29           /* Illegal seek */
#define TARGET_EROFS           30           /* Read-only file system */
#define TARGET_EMLINK          31           /* Too many links */
#define TARGET_EPIPE           32           /* Broken pipe */

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

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

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38           /* Socket operation on non-socket */
```

```
#define TARGET_EDESTADDRREQ     39            /* Destination address required */
#define TARGET_EMSGSIZE 40            /* Message too long */
#define TARGET_EPROTOTYPE       41            /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT      42            /* Protocol not available */
#define TARGET_EPROTONOSUPPORT  43            /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT  44            /* Socket type not supported */
#define TARGET_EOPNOTSUPP       45            /* Operation not supported */
#define TARGET_EPFNOSUPPORT     46            /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT     47            /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE       48            /* Address already in use */
#define
 TARGET_EADDRNOTAVAIL    49            /* Can't assign requested address */

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

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

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

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

/* Network File System */
#define TARGET_ESTALE           70            /* Stale NFS file handle */
#define TARGET_EREMOTE          71            /* Too many levels of remote in path */
#define TARGET_EBADRPC          72            /* RPC struct is bad */
#define TARGET_ERPCMISMATCH
    73            /* RPC version wrong */
#define TARGET_EPROGUNAVAIL     74            /* RPC prog. not avail */
```

```
#define TARGET_EPROGMISMATCH    75          /* Program version wrong */
#define TARGET_EPROCUNAVAIL     76          /* Bad procedure for program */

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

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

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{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },

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{ TARGET_FREEBSD_NR__umtx_op,
 "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL,
 NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_get_file,
 "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL,
 NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
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{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
 "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid,
 "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
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{ TARGET_FREEBSD_NR_listen,
 "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL
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{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil,
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{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk,
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{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setregid,
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{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending,
 "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\",\"%s\")", NULL, NULL },
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{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
NULL, NULL },
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```
# ****************************************************************************/

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

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


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

# Common targets for all subdirectories:
clean distclean depend:
 for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done
# Default configuration for sparc64-bsd-user
# ****************************************************************************
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ifndef TOP
 TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
 export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

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

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS  = -UDEBUG -m64 -I. -I./include -I./include/x86emu \
   -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \
```

```
    -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
    -ffreestanding -Wall -Wno-unused

X86EMU_OBJS =
 debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

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

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

all: libx86emu.a

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

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

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

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

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

```
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid
   23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin
   50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack        53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
```

```
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer
  86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket      97
#define TARGET_OPENBSD_NR_connect     98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn   103
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_listen      106
#define TARGET_OPENBSD_NR_sigsuspend  111
#define TARGET_OPENBSD_NR_gettimeofday        116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_settimeofday        122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
#define TARGET_OPENBSD_NR_setreuid    126
#define TARGET_OPENBSD_NR_setregid    127
#define TARGET_OPENBSD_NR_rename
    128
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkfifo      132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown    134
#define TARGET_OPENBSD_NR_socketpair  135
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc      155
#define TARGET_OPENBSD_NR_getfh       161
#define TARGET_OPENBSD_NR_sysarch     165
#define TARGET_OPENBSD_NR_pread       173
#define TARGET_OPENBSD_NR_pwrite      174
#define TARGET_OPENBSD_NR_setgid      181
```

```
#define TARGET_OPENBSD_NR_setegid     182
#define TARGET_OPENBSD_NR_seteuid     183
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv   185
#define TARGET_OPENBSD_NR_lfs_segclean        186
#define TARGET_OPENBSD_NR_lfs_segwait
 187
#define TARGET_OPENBSD_NR_pathconf    191
#define TARGET_OPENBSD_NR_fpathconf   192
#define TARGET_OPENBSD_NR_swapctl     193
#define TARGET_OPENBSD_NR_getrlimit   194
#define TARGET_OPENBSD_NR_setrlimit   195
#define TARGET_OPENBSD_NR_getdirentries       196
#define TARGET_OPENBSD_NR_mmap        197
#define TARGET_OPENBSD_NR___syscall   198
#define TARGET_OPENBSD_NR_lseek       199
#define TARGET_OPENBSD_NR_truncate    200
#define TARGET_OPENBSD_NR_ftruncate   201
#define TARGET_OPENBSD_NR___sysctl    202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     206
#define TARGET_OPENBSD_NR_getpgid     207
#define TARGET_OPENBSD_NR_xfspioctl   208
#define TARGET_OPENBSD_NR_semget      221
#define TARGET_OPENBSD_NR_msgget      225
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime
    232
#define TARGET_OPENBSD_NR_clock_settime       233
#define TARGET_OPENBSD_NR_clock_getres        234
#define TARGET_OPENBSD_NR_nanosleep   240
#define TARGET_OPENBSD_NR_minherit    250
#define TARGET_OPENBSD_NR_rfork       251
#define TARGET_OPENBSD_NR_poll        252
#define TARGET_OPENBSD_NR_issetugid   253
#define TARGET_OPENBSD_NR_lchown      254
#define TARGET_OPENBSD_NR_getsid      255
#define TARGET_OPENBSD_NR_msync       256
#define TARGET_OPENBSD_NR_pipe        263
#define TARGET_OPENBSD_NR_fhopen      264
#define TARGET_OPENBSD_NR_preadv      267
#define TARGET_OPENBSD_NR_pwritev     268
#define TARGET_OPENBSD_NR_kqueue      269
#define TARGET_OPENBSD_NR_kevent      270
```

```
#define TARGET_OPENBSD_NR_mlockall    271
#define TARGET_OPENBSD_NR_munlockall  272
#define TARGET_OPENBSD_NR_getpeereid  273
#define TARGET_OPENBSD_NR_getresuid   281
#define TARGET_OPENBSD_NR_setresuid   282
#define TARGET_OPENBSD_NR_getresgid   283
#define TARGET_OPENBSD_NR_setresgid
  284
#define TARGET_OPENBSD_NR_mquery      286
#define TARGET_OPENBSD_NR_closefrom   287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget      289
#define TARGET_OPENBSD_NR_semop       290
#define TARGET_OPENBSD_NR_stat        291
#define TARGET_OPENBSD_NR_fstat       292
#define TARGET_OPENBSD_NR_lstat       293
#define TARGET_OPENBSD_NR_fhstat      294
#define TARGET_OPENBSD_NR___semctl    295
#define TARGET_OPENBSD_NR_shmctl      296
#define TARGET_OPENBSD_NR_msgctl      297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid    299
#define TARGET_OPENBSD_NR_thrsleep    300
#define TARGET_OPENBSD_NR_thrwakeup   301
#define TARGET_OPENBSD_NR_threxit     302
#define TARGET_OPENBSD_NR_thrsigdivert        303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs
   309

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

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

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

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1.160 ntp 4.2.8p11

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   overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
   [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original
   author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC>

(driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver

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
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.162 htop 2.2.0

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1.163 libtool 2.4.6

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1.167 ncurses 6.0

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1.168 libtasn 4.13

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1.171 glibc 2.28

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1.173 ipmiutil 3.1.3

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1.174 gzip 1.9

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Python was created in the early 1990s by Guido van Rossum at Stichting
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successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
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2.0	1.6	2000	BeOpen.com	no
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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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Mersenne Twister

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

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

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

Sockets

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

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

Asynchronous socket services

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

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

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

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1.6	1.5.2	2000	CNRI	no
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2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for National
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In May 2000, Guido and the Python core development team moved to BeOpen.com to
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+---+---+---+---+---+
|
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| 1.6.1 | 1.6 | 2001 | CNRI | no |
+---+---+---+---+---+
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+---+---+---+---+---+
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+---+---+---+---+---+
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
+---+---+---+---+---+
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
+---+---+---+---+---+
| 2.1.3 | 2.1.2
| 2002 | PSF | yes |
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Mersenne Twister

The :mod:`_random` module includes code based on a download from
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A C-program
for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

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

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

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

Asynchronous socket services

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

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libffi

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1.176 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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1.177 net-snmp 5.8

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

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

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

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

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

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

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

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

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

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

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

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1.182 sqlite 3.28.0

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1.184 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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1.185 cpio 2.12

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1.187 zlib 1.2.5

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1.189 libssh 0.18

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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==========

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

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created
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1.6.1	1.6	2001	CNRI	no
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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
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

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

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Asynchronous socket services

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

XML Remote Procedure Calls

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

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

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  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson
(https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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cfuhash

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

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1.191 tcl 8.5.7

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1.193 tcl 8.3.0

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1.195 zlib 1.2.1.2

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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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1.196 zlib 1.2.3.3

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1.197 tcl 8.4.19

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1.198 fuse 2.9.0

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1.201 grub 2.16

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1.205 bash 4.2.37

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1.206 elfutils 0.168-8.el7

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     <th width="60%" align="center">Chapter9.
    Upgrading Berkeley DB 11.2.5.3 applications to Berkeley DB 12.1.6.0
  </th>
     <td width="20%" align="right">Next</td>
    </tr>
   </table>
   <hr />

      <h2 class="title" style="clear: both">License Change</h2>

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<hr />
<table width="100%" summary="Navigation footer">
<tr>
<td width="40%" align="left">Prev</td>
<td width="20%" align="center">
Up
</td>
<td width="40%" align="right">Next</td>
</tr>
<tr>
<td width="40%"
align="left" valign="top">Comparison Function Signature Change</td>
<td width="20%" align="center">
Home
</td>
<td width="40%" align="right" valign="top">Updated SQLite Version</td>
</tr>
</table>

</body>
</html>

1.208 libevent 2.0.22

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1.209 parted 3.2

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The implementations of
 GSSAPI mechglue in GSSAPI-SPNEGO in
<code class="docutils literal">src/lib/gssapi</code>, including the following files:
<pre>lib<span
class="o">/gssapi/<span
class="n">generic/gssapi_err_generic<span
class="o">.et
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_accept_sec_context.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_acquire_cred.c
lib/<span
 class="n">gssapi/mechglue<span
class="o">/g_canon_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_compare_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_context_time.c

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

class="o">/mechglue/<span
class="n">g_rel_buffer.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_cred.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_name<span
class="o">.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_oid_set.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_seal.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_sign.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_store_cred.<span
class="n">c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_unseal.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_userok.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_utils.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_verify.c
lib<span
class="o">/gssapi/<span
class="n">mechglue/gssd_pname_to_uid<span
class="o">.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">mglueP.h
lib/gssapi<span
class="o">/mechglue/<span
class="n">oid_ops.c
lib/gssapi<span
class="o">/spnego/<span
class="n">gssapiP_spnego.h
lib/<span

class="n">gssapi/spnego<span
class="o">/spnego_mech.c
</pre>

and the initial implementation of incremental propagation, including
the following new or changed files:
<pre>include<span
class="o">/iprop_hdr.h
kadmin/server<span
class="o">/ipropd_svc.c
lib/kdb/<span
class="n">iprop.x
lib/kdb/<span
class="n">kdb_convert<span
class="o">.c
lib/kdb/<span
class="n">kdb_log.c
lib/kdb/<span
class="n">kdb_log.h
lib/krb5<span
class="o">/error_tables/<span
class="n">kdb5_err.et
kprop/kpropd_rpc<span
class="o">.c
kprop/kproplog<span
class="o">.c
</pre>

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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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
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.. parsed-literal::

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

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

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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

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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
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lib/gssapi/mechglue/g_store_cred.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/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 os
import sys
import re

def warn(fname, ln, msg):
  print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
  return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations.  Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
  text_seen = False
  is_license = False
  for line in comment:
    if not is_license and indicates_license(line):
      is_license = True
      if text_seen:
        warn(fname, ln, 'License begins after first
 line of comment')
      elif code_seen:
        warn(fname, ln, 'License after code')
      elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
      break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
      text_seen = True
  return is_license

def check_file(lines, fname):
  # Skip emacs mode line if present.
  ln = 0
  if '-*- mode: c;' in lines[ln]:
    ln += 1

  # Check filename comment if present.
  m = re.match(r'/\* ([^ ]*)( - .*)? \*/', lines[ln])
  if m:
    if m.group(1) != fname:
```

```
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/',
  '', line)
        line = line.strip()

        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
            is_license = check_comment(comment, fname, comment_starts_at,
                                       code_seen, nonlicense_seen)
            nonlicense_seen = nonlicense_seen or not is_license
            in_comment = False
        elif line.strip() != '':
            code_seen = True

        ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*

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as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@subheading Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software---typically
 libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
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you have the freedom to distribute copies of free software (and charge
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it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library
or if you modify it.

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

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

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

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

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

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

the library.

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

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

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

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

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

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@item
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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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@enumerate a

@item
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.

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of

a storage or distribution medium does not bring the other work under
the scope of this
License.

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

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

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

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

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

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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
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

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

@item

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

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

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

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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file to most effectively
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@end
smallexample

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
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patent must be licensed for everyone's free use or not licensed at all.

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

@item
You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

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If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)
@end enumerate

These requirements apply to the modified work as

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

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

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

@item
You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

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

@item
Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

@item
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.)
@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts
as
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1.222 json-c 0.13.1

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1.223 sudo 1.8.23

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Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren

Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
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
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.224 pcre 8.38

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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Cambridge, England.

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PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
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1.225 glibc 2.16

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@end enumerate

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@item
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directing the user to the copy of
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@enumerate a

@item
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@subheading END OF TERMS AND CONDITIONS

@page
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That's all there is to it!

1.226 libjpeg 8d

1.226.1 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,
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IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
==========

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
 install.txt How to configure and install the IJG software.
 usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
 *.1 Unix-style man pages for programs (same info as usage.txt).
 wizard.txt Advanced usage instructions for JPEG wizards only.
 change.log Version-to-version change highlights.
Programmer and internal documentation:
 libjpeg.txt How to use the JPEG library in your own programs.
 example.c Sample code for calling the JPEG library.
 structure.txt Overview of the JPEG library's internal structure.
 filelist.txt
 Road map of IJG files.
 coderules.txt Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision
 for supporting the hierarchical or lossless
processes defined in the standard.

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

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;

for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between
different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple
applications for inserting and extracting textual comments
 in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
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/.
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ACKNOWLEDGMENTS
==========

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
==========

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG,

together with ITU-T SG16) currently
promotes different formats containing
the name "JPEG" which is misleading because these formats are incompatible
with original DCT-based JPEG and are based on faulty technologies.
IJG therefore does not and will not support such momentary mistakes
(see REFERENCES).
There exist also distributions under the name "OpenJPEG" promoting such
kind of formats which is misleading because they don't support original
JPEG images.
We have no sympathy for the promotion of inferior formats. Indeed, one of
the original reasons for developing this free software was to help force
convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their
public reports which is not true because they don't respond to actual
requirements for the maintenance of the original JPEG specification.
Furthermore,
the ISO committee pretends to "ensure interoperability" with
their standards which is not true because their "standards" support only
application-specific and proprietary use cases and contain mathematically
incorrect code.

There are currently different distributions in circulation containing the
name "libjpeg" which is misleading because they don't have the features and
are incompatible with formats supported by actual IJG libjpeg distributions.
One of those fakes is released by members of the ISO committee and just uses
the name of libjpeg for misdirection of people, similar to the abuse of the
name JPEG as described above, while having nothing in common with actual IJG
libjpeg distributions and containing mathematically incorrect code.
The other one claims to be a "derivative" or "fork" of the original libjpeg,
but violates the license conditions as described under LEGAL ISSUES above
and violates basic C programming properties.
We have no sympathy for the release of
misleading, incorrect and illegal
distributions derived from obsolete code bases.
Don't use an obsolete code base!

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

TO DO
=====

Version 9 is the second release of a new generation JPEG standard
to overcome the limitations of the original JPEG specification,
and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

1.227 net-tools 1.60

1.227.1 Available under license :

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1.228 glibc 2.17-196.el7

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1.229 libtiff 3.9.4-11.el7

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1.230 sqlite 3.7.14.1

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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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*

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

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

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

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

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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
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charge to all third parties under the terms of this License.

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table of data to be supplied by an application program that uses
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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
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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.

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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 their work on the dbox2 port of the DVB driver

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

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 the module unloading problems, ...

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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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1.234 gmp 6.1.2

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1.236 lua 5.3.3

1.237 busybox 1.18.0

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1.242 glibc 2.17-106.el7_2.8

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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.

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1.243 systemd 219-19.el7_2.13

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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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1.245 zeromq 4.2.3

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1.247 openssh 7.5

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```
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*
* 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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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
 int  fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN  0x0001
#define POLLOUT  0x0004
#define POLLERR  0x0008
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI  0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not
 standard */

int   poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)  ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

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int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.248 open-ldap 2.4.40-9.el7_2

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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1.258 attr 2.4.47

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1.262 tar 1.30

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any
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If distribution of object code is made by offering access to copy
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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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linked with it, is called a "work that uses
the Library". Such a
work, in isolation, is not a derivative work of the Library, and
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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
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distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also compile or
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy
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which the executable
runs, unless that component itself accompanies
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That's all there is to it!

1.268 mtd-utils 1.5.2

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1.269 binutils 2.31.1

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++++++++++++++++

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed
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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
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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

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

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

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

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

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

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

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

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
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
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therefore falls outside the scope of this License.

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

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

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

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Version 3, 29 June 2007

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1.275 libcgroup 0.41

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1.278 libusb 1.0.22

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1.285 libconfig 1.7.2

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

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

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

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

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

@sp 1
@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among
 them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

@enumerate a

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

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

@sp 1
@item
Accompany the work with a written offer, valid for at least three years,
to give the same user the materials specified in Subsection 6a, above,
for a charge no more than the cost of performing this distribution.

@sp 1
@item
If distribution of the work is made by offering access to copy from a
designated place, offer equivalent access to copy the above specified
materials from the same place.

@sp 1
@item
Verify that the user has already received a copy of these materials or

that you have already sent this user a copy.

@end enumerate

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

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

@sp 1
@item
You may place library facilities that are a work based on the Library
side-by-side in a single library together with other library facilities
not covered by this License, and distribute such a combined library,
provided that the separate distribution of the work based on the Library
and of the other library facilities is otherwise permitted, and provided
that you do these two things:

@enumerate
 a

@sp 1
@item
Accompany the combined library with a copy of the same work based on the
Library, uncombined with any other library facilities. This must be
distributed under the terms of the Sections above.

@sp 1
@item
Give prominent notice with the combined library of the fact that part of
it is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

@end enumerate

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such claims; this section has the sole purpose of protecting the
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@end enumerate

@sp 1
@center END OF TERMS AND CONDITIONS
@sp 1
@page
@center How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the
terms of
the ordinary General Public License).

To apply these terms, attach the following notices to the library. It
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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
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<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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Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
}
@end format

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

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

@format
@t{
Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

@c @bye

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Version 2.1, February 1999

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

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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
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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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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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that is part of the Library, the object code for the work may be a
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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.

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

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

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

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

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

For an executable, the required form of the "work that uses the

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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1.287 tcl 8.6.8

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1.288 sudo 1.8.19p2-10.el7

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

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

Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
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G., Daniel Richard
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Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
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Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
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Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian,
Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
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
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Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
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Stier, Matthew
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Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

Blttermann, Mario

Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
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Hein, Jochen
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Krznar, Tomislav
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Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
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Uranga, Mikel Olasagasti
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1.289 nginx 1.13.1

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1.290 libxml 2.9.1

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1.291 libxml 2.9.8

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1.292 file 5.34

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-*-makefile-*-
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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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1.293 gnutls 3.6.4

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#
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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
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#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
```

src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
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1.296 less 466

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1.297 protobuf 3.6.1

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 * Fixes for Solaris 10 32/64-bit confusion.
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 * Optimize Java serialization of strings so that UTF-8 encoding happens only
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 * Clean up some Java warnings.
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 * Added atomicops for AIX (POWER)

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1.298 acpid 2.0.30

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1.299 elfutils 0.175

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1.300 lzo 2.06

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1.302 libcheck 0.9.14

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

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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consider
it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.305 bsd-mailx 12.5-5

1.305.1 Available under license :

bsd-mailx for DEBIAN

The history of this package is quite complicated. The changelog

includes a summary with the different maintainers.

At the beginning of Debian, I think this package was based on a BSD 5.5
mail version from FreeBSD.

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

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

+ It uses BSD signal() semantics. Use sigaction().
+ It uses BSD longjmp() semantics. Use siglongjmp().
+
It uses BSD sgtty. Use termios.
+ It uses BSD signal mask functions. Use posix sigmask functions.
+
+ There will probably be other hurdles too. Good luck.

With Debian1.1 a switch was done to a version base on a BSD5.5 mail
program, because of signal handling problems (which I think were due
to bad compilation options). So no more POP support. Some patches
from Ken Whang <Kenneth.C.Whang-1@umn.edu> included, the corresponding
README was:
+ mailx-5.5-kw 5/30/95
+
+
+ WHAT'S IN THIS PATCH
+
+ There are a bunch of little features, common in System V and SunOS
+ versions of mailx, that are missing from the NetBSD-based version
+ distributed with Linux. This patch attempts to fill in some of what's
+ missing.
+
+ Changes from debian mailx-5.5 include:
+
+ 5/4/95:
+
+ -- interpret prompt variable
+ -- interpret ~a and ~A tilde escapes
+ -- updated tildehelp list
+ -- changed mail.rc to ignore nothing (just my personal preference)
+ -- accept
From lines with times of the form hh:mm (formerly took only hh:mm:ss)
+
+ 5/7/95:
+
+ -- Save (S) command saves to mailbox named after author
+ -- take startup commands from file named by environment variable MAILRC
+
+ 5/30/95:
+
+ -- -H switch for header summary only
+
+ Still to be done:
+
+ -- pipe ~p output through PAGER (see type1 in cmd1.c for an example)
+ -- save (s) by default to MBOX (instead of "No file specified.")

+ -- ~q should save to dead.letter, ~x is not known
+ -- update man page
+ -- allnet and showto ("showto" shows recipient instead of sender if sender
+   is current user)
+
+ Possibly difficult:
+
+ -- interpret editheaders variable as in SunOS version
+
+ Bugs:
+
+ -- ~a,~A tilde escapes leave an extra trailing blank on each line
+ -- to conform to original style, I should really be using char *cp
+   instead of new variables sig and prompt to be looking up variables
+ -- -H switch implementation
is kind of gross. grep for "hdronly" in
+   source files; much room for improvement!
+
+
+ HOW TO INSTALL
+
+ Apply Sal Valente's debian patch first, so:
+
+   tar xvfz mailx-5.5.tar.gz
+   cd mailx-5.5
+   zcat ../mailx-5.5.debian.diff.gz | patch -p1
+   zcat ../mailx-5.5-kw.diff.gz | patch -p1
+   make
+
+ Or you may wish to just uncompress the diff file and pick and choose
+ the changes that you like.
+
+
+ AUTHOR
+
+ Ken Whang <Kenneth.C.Whang-1@umn.edu>

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

Loic Prylli

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

Sat Apr 4 14:05:38 CEST 1998:
After a security patch to fix tmp races, a number of things broke.
Here is what I have tried to fix them:
The rationale is to have all file openings go through safe_open:
File opened in mode "w", "w+", are created with O_EXCL mode,
(should coincide with temporary files or new files)
Files with "a" "a+" et "r+" mode do not require the O_EXCL files. "a+" et "r+" do not creat the file.

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

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

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

include /usr/share/dpkg/architecture.mk

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

%:
 dh "$@" --parallel

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

override_dh_installchangelogs:
 dh_installchangelogs -a debian/EXT/ChangeLog
```

```
bsd-mailx (8.1.2-0.20131005cvs-1ubuntu0.14.04.1) trusty-security; urgency=medium

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Standards-Version: 3.8.3

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

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

* Upload to unstable.

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

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

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

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

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

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

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

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

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

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

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

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

--

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

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

 * collect.c: Ooops, for debugging I commented out the line responsible
   for removing temporary, and forgot to uncomment it...

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 * New upstream version from OpenBSD.
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Updated Build-Depends field.
* Closing bugs fixed in NMUs (closes: #23901, #64238, #68725, #68745).

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

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

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

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

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

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

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

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

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

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

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

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

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

-0700

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

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

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

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

* Security fix for a GID=mail shell.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

mailx (1:8.1.1-6) unstable; urgency=low

 * convert to debhelper
 * changelog now compressed (bug#15431)
 * removed .orig and .rej from source (bug#18409)

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 14 Feb 1998 14:34:22 +0100

mailx (1:8.1.1-5) unstable; urgency=low

 * apply David Brown patch so mailx choose the right window size
   (#12197)
 * correct Depends: in control file.

-- Loic Prylli <lprylli@graville.fdn.fr>
  Sat, 15 Nov 1997 00:30:38 +0100

mailx (1:8.1.1-4) unstable; urgency=high

 * mailx was sending empty message, ignoring user input
   add clearerr when EAGAIN occur in "IOSAFE" code (#14263)

-- Loic Prylli <lprylli@graville.fdn.fr> Tue, 11 Nov 1997 20:22:35 +0100

mailx (1:8.1.1-3.1) unstable; urgency=low

 * Non-maintainer release.
 * Libc6 compile. (#11705)
 * Install missing symlink to manpage. (#7274)

-- Martin Mitchell <martin@debian.org> Wed, 29 Oct 1997 04:34:39 +1100

mailx (1:8.1.1-3) unstable; urgency=low

 * add dpkg --assert-working-epoch in preinst bug#6850
 * add writing of pid in mailbox locking file
 * fix:mailx was not removing temporary lock files

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 1 Feb 1997 11:44:04 +0100

mailx (1:8.1.1-2) unstable; urgency=low

 * correct bug #2733 (occur when no space left) dans quit.c
 * detection of From_ lines with tring to match the date bug#2010
 * corrected garble output bug #2284

-- Loic

Prylli <lprylli@graville.fdn.fr> Sat, 28 Dec 1996 15:02:22 +0100

mailx (1:8.1.1-1) unstable; urgency=medium

 * recreate completely starting from OpenBSD mail version (we loose a lot
   of extension but we have a working program now)
 * OpenBSD base version is the last one in december 96
 * rechange the numbering of version, so epoch 1+8.1 is from 4.4BSD, the
   last upstream digit is to change each time we update to a new openbsd
   version.
 * fix the problem of longjmp inside signals inside stdio calls
 * reincorporate a patch to be dot file locking+setgid safe
 * some fix in signal handling

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Dec 1996 01:57:44 +0100

Mon Apr 29 17:21:42 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

 * releasing 8.5.5-1

 * added symlink /usr/bin/Mail -> /usr/bin/mailx

Thu Apr 25 23:55:36 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

 * set version number to 8.5.5 because it has to superseed 8.1

 * switched back to mailx-5.5-kw (see mailx-5.5-kw.diff.README)

 * no POP support

mailx 8.1 Debian 5 - 10/19/95 Sven Rudolph <sr1@inf.tu-dresden.de>
* uses now BSD signal emulation (/usr/include/bsd/signal.h)
* added virtual package names in Depends: and Provides fields (Bug#1460)
* added Section: field
* created symlink for mailx manpage (Bug#1114)

mailx 8.1 Debian 4 - 5/20/95 Carl Streeter <streeter@cae.wisc.edu>
* Added diffs from Delman Lee <delman@mipg.upenn.edu>:

  Hi! I got mailx-8.1-3 from the Linux Debian distribution, and have
  added a "hold-pop" option to hold messages on the POP server after
  retrieving them. (Also fixed a minor bug with mailx thinking that there
  is mail even if the POP mailbox is empty. Code around stat() below.)

mailx 8.1 Debian 3 - 4/18/95 Carl Streeter <streeter@cae.wisc.edu>
* Fixed control file to depend on smail|sendmail. Updated to latest
 guidelines

bsd-mailx source: source-contains-cvs-control-dir
Source: bsd-mailx
Section: mail
Priority: standard
Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
XSBC-Original-Maintainer: Robert Luberda <robert@debian.org>
Standards-Version: 3.9.4
Build-Depends: debhelper (>= 9),
groff,
libbsd-dev (>= 0.3),
liblockfile-dev (>= 1.05)
Vcs-Git: git://anonscm.debian.org/users/robert/bsd-mailx.git
Vcs-Browser: http://anonscm.debian.org/gitweb/?p=users/robert/bsd-mailx.git

Package: bsd-mailx
Architecture: any
Depends: base-files (>= 2.2.0),
default-mta | mail-transport-agent,
${misc:Depends},
${shlibs:Depends}
Provides: mail-reader, mailx
Breaks: mailutils (<< 1:1.1+dfsg1-4), mailx (<< 1:20071201)
Replaces: mailx (<< 1:20071201)
Description: simple mail user agent
bsd-mailx is the traditional simple command-line-mode mail user agent.
Even if you don't use it, it may be required by other programs.
.
The /usr/bin/mail command provided by this package is a very
simple one,
and does not include many features that can be found in more advanced
mail user agents.
.
For example bsd-mailx DOES NOT support:
- MIME (i.e. no attachments, no UTF-8 or other charsets support);
- SMTP protocol (/usr/sbin/sendmail interface only is used);
- POP3/IMAP (bsd-mailx reads local mailboxes only);
- maildir format (traditional mbox only format is supported).
.
If the above features are needed, please consider installing another package
providing similar /usr/bin/mail interface:
- heirloom-mailx package,
- or mailutils package.

1.306 pam 1.3.0-r5

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1.307 jemalloc 5.2.1

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1.308 lzo 2.10

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1.309 bc 1.07

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1.310 dc 1.4

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1.312 boost 1.68.0

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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>`.

1.313 junit 4.1.jar.pack

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1.314 cyrus-sasl 2.1.26-21.el7

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* Rob Siemborski
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1.315 libteam 1.17-7.el7_2

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1.316 mtd-utils 2.0.2

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1.318 hunspell 1.7.0

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* (Deinst@world.std.com). David and I are now
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1.319 udev 3.2.5

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1.320 curl 7.18.2

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==========

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Because of this blurred distinction, using the ordinary General
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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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FlashPoint Driver Developer's Kit

Version 1.0

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1.324 curl 7.56.1

1.324.1 Available under license :

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==========

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1.325 rsyslog 8.1908.0

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another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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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
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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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^L
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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
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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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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a)
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will
operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables
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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
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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)

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1.342 acl 2.2.51 12.el7

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This package was debianized by Nathan Scott nathans@debian.org on
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1.343 pam 1.1.8 18.el7

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1.344 ncurses 5.9 13.20130511.el7

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1.345 nspr 4.13.1 1.0.el7_3

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1.348 numactl 2.0.9 6.el7_2

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1.351 fontconfig 2.10.95 11.el7

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1.352 open-ldap 2.4.44 5.el7

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1.353 glib 2.50.3 3.el7

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1.354 netbsd-resolv 2.17 196.el7_4.2

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino
<jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 version="1.0">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
   <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
   </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
```

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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>

</xsl:stylesheet>

<!--

 - Local variables:
 - mode: sgml
 - End:
-->
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1.357 dhcp 4.2.5 42.el7.centos

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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino
 <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
 admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
 except the first one, were first implemented in the Buildtool project.
 They were later adapted to be part of Boost.Process and, during that
 process, the shell script was created.

 Author: Julio Merino <jmmv84@gmail.com>

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-->

```
<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 version="1.0">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
   <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
   </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
   <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text>&#10;</xsl:text>
```

```
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>

</xsl:stylesheet>

<!--

 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.358 nss 3.28.4 8.el7

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino
<jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 version="1.0">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
   <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
   </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
   <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
   </xsl:with-param>
  </xsl:call-template>
```

</xsl:variable>

</xsl:stylesheet>

<!--

- Local variables:
- mode: sgml
- End:
-->
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1.360 curl 7.28.1

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==========

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OpenSSL

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GnuTLS

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1.361 busybox 1.29.2

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1.362 strace 4.10

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1.363 curl 7.43.0

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1.374 iputils s20180629

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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The End

---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:
 MailingList: mailto:module-build@perl.org
 license: http://dev.perl.org/licenses/
 repository: http://github.com/dagolden/module-build/
version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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You should also get your employer (if you work as a programmer) or your
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 program `Gnomovision' (a program to direct compilers to make passes
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 <signature of Ty Coon>, 1 April 1989
 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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The End

1.383 dnsmasq 2.79

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1.386 libconfig 1.7.2

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
}
@end format

That's all there is to it!

@c @bye

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Version 2.1, February 1999

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1.387 perl 5.28.1

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---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl

meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:
 MailingList: mailto:module-build@perl.org
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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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```

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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The End

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1.390 libmagic 5.32

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1.391 nmap 7.40

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  http://www.tcpdump.org/
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  ethernet frames. A modified version is distributed with Nmap in the
  libdnet-stripped subdirectory. A summary of Nmap-local modifications
  is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/

o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's
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Distributed with Nmap in the libpcre subdirectory.
http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language
of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow
running Lua programs inside Nmap. Distributed with Nmap in the liblua
subdirectory. liblua can be omitted by configuring with the
--without-liblua configuration directive.
http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection
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o LIBLINEAR. Used for IPv6 OS classifiction.
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http://www.libpng.org/ http://www.ijg.org/ http://www.libtiff.org/
o zlib and bzip2: compression libraries.

http://www.zlib.org/ http://www.bzip.org/
o Expat: XML parser library.
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o libxml2: XML parsing library.
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o SQLite.
http://www.sqlite.org/
o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL
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http://www.pygtk.org/
o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1
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o Various X.org libraries. These were built using MacPorts.
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Written
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1.395 gettext libc version

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a purpose that is entirely well-defined independent of the
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application-supplied function or table used by this function must
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if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
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@enumerate a
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@page
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name
and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}

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@end smallexample

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If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

@smallexample
Gnomovision version
 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the program, if
necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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Version 2.1, February 1999

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#
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
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src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
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src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
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1.401 libunwind 1.2-rc1

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1.403 shim 10.6

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1.404 tcpdump 4.9.3

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1.405 openssl 0.9.8e 29.el7.centos.3

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1.406 netkit-tftp 5.2

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1.407 cracklib 2.9.5

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
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> > it was enough to just get it consistent and documented as to what
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> not
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> unlike the old license, GPL-2 prevents people from using cracklib
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> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.

>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk

>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.408 beecrypt 4.2.1

1.408.1 Available under license :

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables
containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work 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
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
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That's all there is to it!
I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-
precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired
and contributed to many of the changes for version 3.0.0. He also provided
the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for
Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

Further thanks go to:
- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to
test and BeeCrypt on many new
platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information,
reported bugs, provided feedback, or works on including BeeCrypt in any
other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll
rectify the situation as quickly as possible.

1.409 lm-sensors 3.4.0

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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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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
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a written
offer,
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anyone who possesses the object code either (1) a copy of the
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for software interchange, for a price no more than your reasonable
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to copy the Corresponding Source from a network server at no charge.

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Convey individual copies of the object code with a copy of the written
offer to provide the Corresponding Source. This alternative is
allowed only occasionally and noncommercially, and only if you
received the object code with such an offer, in accord with subsection
6b.

@item
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through
 the same place at no
further charge. You need not require recipients to copy the

Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

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1.412 dhcp 4.4.1

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh,
admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param
 name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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     file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
```

```
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.413 bridgeutils 1.6

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1.420 libusb 1.0.8

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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.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object

code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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this License. You must supply a copy of this License. If the work
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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
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Subsection 6a, above, for a charge no more than the cost of
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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That's all there is to it!

1.424 libunwind 1.2.1

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1.425 libcroco 0.6.12

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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
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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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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

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1.426 rpm 4.14.2

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 'freedreno_layout',
 [
   'fd6_layout.c',
   'freedreno_layout.c',
 ],
 include_directories : [inc_freedreno, inc_common],
 c_args : [c_vis_args, no_override_init_args],
 cpp_args : [cpp_vis_args],
 dependencies : idep_nir_headers,
 build_by_default : false,
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That's all there is to it!
This package was debianized by Ron Lee <ron@debian.org> on
Sun, 13 Feb 2000 18:40:00 +1030.

More information about wxWidgets, as well as the source these debs
are produced from can be found at www.wxwidgets.org

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==========

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 -- Ron

Preamble
========

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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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
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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
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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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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

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The "Library", below, refers to any such software
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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
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function
or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

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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
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This option is useful when you wish to
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation,
is not a derivative work
of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if

the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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
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c) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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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 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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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

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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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1.439 libx11 1.6.4

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1.441 selinux 2.107-1.el7_6

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and semantics are as close as possible to those of the Perl 5 language.

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Website: http://github.com/jquery/qunit/
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Component: qunit 2.3.2
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Website: http://github.com/cjohansen/sinon-qunit/
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Component: Sinon.JS 1.14.1
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Component: String startsWith Method 0.2.0
Licensor: Mathias Bynens
Website: https://github.com/mathiasbynens/String.prototype.startsWith
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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file

that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions
(ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative 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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==========

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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
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#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
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#
src/gzip/adler32.c
src/gzip/infblock.c
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src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
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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/*.c>, <crypto/*/*.c>, <ssl/*.c>, <apps/*.c>)
            When this option is NOT specified, the filelist is taken from
            the commandline instead. Here, wildcards may be embedded. (Be
            sure to escape those to prevent the shell from expanding them
            for you when you wish mkerr.pl to do so instead.)
            Default: take file list to scan from the command line.

 -reindex   Discard the numeric values previously assigned to the error
            and function codes as extracted from the scanned header files;
            instead renumber all of them starting from 100. (Note that
            the numbers assigned through 'R' records in the config file
            remain intact.)
            Default: keep previously assigned numbers. (You are warned
                  when collisions are detected.)

 -nostatic   Generates a different source
 code, where these additional
            functions are generated for each library specified in the
            config file:
              void ERR_load_<LIB>_strings(void);
              void ERR_unload_<LIB>_strings(void);
              void ERR_<LIB>_error(int f, int r, char *fn, int ln);

```
            #define <LIB>err(f,r) ERR_<LIB>_error(f,r,__FILE__,__LINE__)
            while the code facilitates the use of these in an environment
            where the error support routines are dynamically loaded at
            runtime.
            Default: 'static' code generation.

 -staticloader Prefix generated functions with the 'static' scope modifier.
            Default: don't write any scope modifier prefix.

 -write      Actually (over)write the generated code to the header and C
            source files as assigned to each library through the config
            file.
            Default: don't write.

 -help / -h / -?
 / --help          Show this help text.

 ...        Additional arguments are added to the file list to scan,
            assuming '-recurse' was NOT specified on the command line.

EOF
  exit 1;
 } else {
  last;
 }
}

if($recurse) {
 @source = ( <crypto/*.c>, <crypto/*/*.c>, <ssl/*.c>,
   <fips/*.c>, <fips/*/*.c>);
} else {
 @source = @ARGV;
}

# Read in the config file

open(IN, "<$config") || die "Can't open config file $config";

# Parse config file

while(<IN>)
{
 if(/^L\s+(\S+)\s+(\S+)\s+(\S+)/) {
  $hinc{$1} = $2;
  $libinc{$2} = $1;
  $cskip{$3} = $1;
  if($3 ne "NONE") {
   $csrc{$1} = $3;
```

```
  $fmax{$1} = 100;
  $rmax{$1} = 100;
  $fassigned{$1} = ":";
  $rassigned{$1} = ":";
  $fnew{$1} = 0;
  $rnew{$1} = 0;
 }
 } elsif (/^F\s+(\S+)/) {
 # Add extra function with $1
 } elsif (/^R\s+(\S+)\s+(\S+)/) {
 $rextra{$1} = $2;
 $rcodes{$1} = $2;
 }
}

close IN;

# Scan each header file in turn and make a list of error codes
# and function names

while (($hdr, $lib) =
 each %libinc)
{
 next if($hdr eq "NONE");
 print STDERR "Scanning header file $hdr\n" if $debug;
 my $line = "", $def= "", $linenr = 0, $gotfile = 0;
 if (open(IN, "<$hdr")) {
    $gotfile = 1;
    while(<IN>) {
 $linenr++;
 print STDERR "line: $linenr\r" if $debug;

 last if(/BEGIN\s+ERROR\s+CODES/);
 if ($line ne '') {
    $_ = $line . $_;
    $line = '';
 }

 if (/\\$/) {
    $line = $_;
    next;
 }

 if(/\/\*/) {
    if (not /\*\//) {  # multiline comment...
  $line = $_;  # ... just accumulate
  next;
    } else {
```

```
 s/\/\*.*?\*\///gs; # wipe it
    }
}

if ($cpp) {
    $cpp++ if /^#\s*if/;
    $cpp-- if /^#\s*endif/;
    next;
}
$cpp = 1 if /^#.*ifdef.*cplusplus/;  # skip "C" declaration

next if (/^\#/);                    # skip preprocessor directives

s/{[^{}]*}//gs;                      # ignore {} blocks

if (/\{|\/\*/) { # Add a } so editor works...
    $line = $_;
} else {
    $def .= $_;
}
   }
}

print STDERR
"                               \r" if $debug;
     $defnr = 0;
# Delete any DECLARE_ macros
$def =~ s/DECLARE_\w+\([\w,\s]+\)//gs;
foreach (split /;/, $def) {
   $defnr++;
   print STDERR "def: $defnr\r" if $debug;

   # The goal is to collect function names from function declarations.

   s/^[\n\s]*//g;
   s/[\n\s]*$//g;

   # Skip over recognized non-function declarations
   next if(/typedef\W/ or /DECLARE_STACK_OF/ or /TYPEDEF_.*_OF/);

   # Remove STACK_OF(foo)
   s/STACK_OF\(\w+\)/void/;

   # Reduce argument lists to empty ()
   # fold round brackets recursively: (t(*v)(t),t) -> (t{}{},t) -> {}
   while(/\(.*\)/s) {
 s/\([^\(\)]+\)/\{\}/gs;
 s/\(\s*\*\s*(\w+)\s*\{\}\s*\)/$1/gs; #(*f{}) -> f
```

```
    }
    # pretend as we didn't use curly braces: {} -> ()
    s/\{\}/\(\)/gs;

    if (/(\w+)\s*\(\).*/s) { # first token prior [first] () is
  my $name = $1;  # a function name!
  $name =~ tr/[a-z]/[A-Z]/;
  $ftrans{$name} = $1;
    } elsif (/[\(\)]/
and not (/=/)) {
  print STDERR "Header $hdr: cannot parse: $_;\n";
    }
}

print STDERR "                                \r" if $debug;

next if $reindex;

# Scan function and reason codes and store them: keep a note of the
# maximum code used.

if ($gotfile) {
  while(<IN>) {
  if(/^\#define\s+(\S+)\s+(\S+)/) {
  $name = $1;
  $code = $2;
  next if $name =~ /^${lib}err/;
  unless($name =~ /^${lib}_([RF])_(\w+)$/) {
   print STDERR "Invalid error code $name\n";
   next;
  }
  if($1 eq "R") {
   $rcodes{$name} = $code;
   if ($rassigned{$lib} =~ /:$code:/) {
    print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
    ++$errcount;
   }
   $rassigned{$lib} .= "$code:";
   if(!(exists $rextra{$name}) &&
     ($code > $rmax{$lib}) ) {
    $rmax{$lib} = $code;
   }
  } else {
   if ($fassigned{$lib} =~ /:$code:/) {
    print STDERR "!! ERROR: $lib function code $code assigned twice (collision at $name)\n";
    ++$errcount;
   }
   $fassigned{$lib}
```

```
.= "$code:";
   if($code > $fmax{$lib}) {
    $fmax{$lib} = $code;
   }
   $fcodes{$name} = $code;
  }
 }
  }
}

if ($debug) {
 if (defined($fmax{$lib})) {
  print STDERR "Max function code fmax" . "{" . "$lib" . "} = $fmax{$lib}\n";
  $fassigned{$lib} =~ m/^:(.*):$/;
  @fassigned = sort {$a <=> $b} split(":", $1);
  print STDERR "  @fassigned\n";
 }
 if (defined($rmax{$lib})) {
  print STDERR "Max reason code rmax" . "{" . "$lib" . "} = $rmax{$lib}\n";
  $rassigned{$lib} =~ m/^:(.*):$/;
  @rassigned = sort {$a <=> $b} split(":", $1);
  print STDERR "  @rassigned\n";
 }
}

if ($lib eq "SSL") {
 if ($rmax{$lib} >= 1000) {
  print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n";
  print STDERR "!!        Any new alerts must be added to $config.\n";
  ++$errcount;
  print STDERR "\n";
 }
}
 close IN;
}

# Scan each C source file and look for function and reason codes
# This is done by looking for strings that
 "look like" function or
# reason codes: basically anything consisting of all upper case and
# numerics which has _F_ or _R_ in it and which has the name of an
# error library at the start. This seems to work fine except for the
# oddly named structure BIO_F_CTX which needs to be ignored.
# If a code doesn't exist in list compiled from headers then mark it
# with the value "X" as a place holder to give it a value later.
# Store all function and reason codes found in %ufcodes and %urcodes
# so all those unreferenced can be printed out.
```

```
foreach $file (@source) {
 # Don't parse the error source file.
 next if exists $cskip{$file};
 print STDERR "File loaded: ".$file."\r" if $debug;
 open(IN, "<$file") || die "Can't open source file $file\n";
 while(<IN>) {
  # skip obsoleted source files entirely!
  last if(/^#error\s+obsolete/);

  if(/(([A-Z0-9]+)_F_([A-Z0-9_]+))/) {
   next unless exists $csrc{$2};
   next if($1 eq "BIO_F_BUFFER_CTX");
   $ufcodes{$1} = 1;
   if(!exists $fcodes{$1})
  {
    $fcodes{$1} = "X";
    $fnew{$2}++;
   }
   $notrans{$1} = 1 unless exists $ftrans{$3};
   print STDERR "Function: $1\t= $fcodes{$1} (lib: $2, name: $3)\n" if $debug;
  }
  if(/(([A-Z0-9]+)_R_[A-Z0-9_]+)/) {
   next unless exists $csrc{$2};
   $urcodes{$1} = 1;
   if(!exists $rcodes{$1}) {
    $rcodes{$1} = "X";
    $rnew{$2}++;
   }
   print STDERR "Reason: $1\t= $rcodes{$1} (lib: $2)\n" if $debug;
  }
 }
 close IN;
}
print STDERR "                                \n" if $debug;

# Now process each library in turn.

foreach $lib (keys %csrc)
{
 my $hfile = $hinc{$lib};
 my $cfile = $csrc{$lib};
 if(!$fnew{$lib} && !$rnew{$lib}) {
  print STDERR "$lib:\t\tNo new error codes\n";
  next unless $rebuild;
 } else {
  print STDERR "$lib:\t\t$fnew{$lib} New Functions,";
  print STDERR " $rnew{$lib} New Reasons.\n";
```

```
 next unless $dowrite;
}

# If we get here then we have some new error codes so we
# need to rebuild the header file and C file.

# Make a sorted list of error and
reason codes for later use.

my @function = sort grep(/^${lib}_/,keys %fcodes);
my @reasons = sort grep(/^${lib}_/,keys %rcodes);

# Rewrite the header file

if (open(IN, "<$hfile")) {
    # Copy across the old file
    while(<IN>) {
 push @out, $_;
 last if (/BEGIN ERROR CODES/);
    }
    close IN;
} else {
    push @out,
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" *\n",
" */\n",
"\n",
"#ifndef HEADER_${lib}_ERR_H\n",
"#define HEADER_${lib}_ERR_H\n",
"\n",
"#ifdef  __cplusplus\n",
"extern \"C\" {\n",
"#endif\n",
"\n",
"/* BEGIN ERROR CODES */\n";
 }
 open (OUT, ">$hfile") || die "Can't Open File $hfile for writing\n";

 print OUT @out;
 undef @out;
 print OUT <<"EOF";
/* The following lines are auto generated by the script mkerr.pl. Any changes
* made after this point may be overwritten when the script is next run.
```

```
*/
EOF
 if($static) {
  print OUT <<"EOF";
${staticloader}void ERR_load_${lib}_strings(void);

EOF
 } else {
  print OUT <<"EOF";
${staticloader}void ERR_load_${lib}_strings(void);
${staticloader}void ERR_unload_${lib}_strings(void);
${staticloader}void ERR_${lib}_error(int function, int reason, char
 *file, int line);
#define ${lib}err(f,r) ERR_${lib}_error((f),(r),__FILE__,__LINE__)

EOF
 }
 print OUT <<"EOF";
/* Error codes for the $lib functions. */

/* Function codes. */
EOF

 foreach $i (@function) {
  $z=6-int(length($i)/8);
  if($fcodes{$i} eq "X") {
   $fassigned{$lib} =~ m/^:([^:]*):/;
   $findcode = $1;
   if (!defined($findcode)) {
    $findcode = $fmax{$lib};
   }
   while ($fassigned{$lib} =~ m/:$findcode:/) {
    $findcode++;
   }
   $fcodes{$i} = $findcode;
   $fassigned{$lib} .= "$findcode:";
   print STDERR "New Function code $i\n" if $debug;
  }
  printf OUT "#define $i%s $fcodes{$i}\n","\t" x $z;
 }

 print OUT "\n/* Reason codes. */\n";

 foreach $i (@reasons) {
  $z=6-int(length($i)/8);
  if($rcodes{$i} eq "X") {
   $rassigned{$lib} =~ m/^:([^:]*):/;
   $findcode = $1;
```

```
  if (!defined($findcode)) {
   $findcode = $rmax{$lib};
  }
  while ($rassigned{$lib} =~ m/:$findcode:/) {
   $findcode++;
  }
  $rcodes{$i} = $findcode;
  $rassigned{$lib} .= "$findcode:";
  print
 STDERR "New Reason code   $i\n" if $debug;
  }
  printf OUT "#define $i%s $rcodes{$i}\n","\t" x $z;
 }
 print OUT <<"EOF";

#ifdef  __cplusplus
}
#endif
#endif
EOF
 close OUT;

 # Rewrite the C source file containing the error details.

 # First, read any existing reason string definitions:
 my %err_reason_strings;
 if (open(IN,"<$cfile")) {
  while (<IN>) {
   if (/\b(${lib}_R_\w*)\b.*\"(.*)\"/) {
    $err_reason_strings{$1} = $2;
   }
   if (/\b${lib}_F_(\w*)\b.*\"(.*)\"/) {
    if (!exists $ftrans{$1} && ($1 ne $2)) {
     print STDERR "WARNING: Mismatched function string $2\n";
     $ftrans{$1} = $2;
    }
   }
  }
  close(IN);
 }


 my $hincf;
 if($static) {
  $hfile =~ /([^\/]+)$/;
  $hincf = "<${hprefix}$1>";
 } else {
  $hincf = "\"$hfile\"";
```

```
}

# If static we know the error code at compile time so use it
# in error definitions.

if ($static)
 {
 $pack_errcode = "ERR_LIB_${lib}";
 $load_errcode = "0";
 }
else
 {
 $pack_errcode = "0";
 $load_errcode = "ERR_LIB_${lib}";
 }


 open
(OUT,">$cfile") || die "Can't open $cfile for writing";

 print OUT <<"EOF";
/* $cfile */
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*/

/* NOTE: this file was auto generated by the mkerr.pl script: any changes
* made to it will be overwritten when the script next updates this file,
* only reason strings will be preserved.
*/

#include <stdio.h>
#include <openssl/err.h>
#include
 $hincf

/* BEGIN ERROR CODES */
#ifndef OPENSSL_NO_ERR

#define ERR_FUNC(func) ERR_PACK($pack_errcode,func,0)
#define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)

static ERR_STRING_DATA ${lib}_str_functs[]=
 {
```

```
EOF
 # Add each function code: if a function name is found then use it.
 foreach $i (@function) {
  my $fn;
  $i =~ /^${lib}_F_(\S+)$/;
  $fn = $1;
  if(exists $ftrans{$fn}) {
   $fn = $ftrans{$fn};
  }
#  print OUT "{ERR_PACK($pack_errcode,$i,0),\t\"$fn\"},\n";
  print OUT "{ERR_FUNC($i),\t\"$fn\"},\n";
 }
 print OUT <<"EOF";
{0,NULL}
 };

static ERR_STRING_DATA ${lib}_str_reasons[]=
 {
EOF
 # Add each reason code.
 foreach $i (@reasons) {
  my $rn;
  my $rstr = "ERR_REASON($i)";
  my $nspc = 0;
  if (exists $err_reason_strings{$i}) {
   $rn = $err_reason_strings{$i};
  } else {
   $i =~ /^${lib}_R_(\S+)$/;
   $rn = $1;
   $rn =~ tr/_[A-Z]/ [a-z]/;
  }
  $nspc = 40 - length($rstr) unless length($rstr) > 40;
  $nspc = " " x $nspc;
  print OUT "{${rstr}${nspc},\"$rn\"},\n";
 }
if($static)
 {
 print OUT <<"EOF";
{0,NULL}
 };

#endif

${staticloader}void ERR_load_${lib}_strings(void)
 {
#ifndef OPENSSL_NO_ERR

 if (ERR_func_error_string(${lib}_str_functs[0].error) == NULL)
```

```
  {
  ERR_load_strings($load_errcode,${lib}_str_functs);
  ERR_load_strings($load_errcode,${lib}_str_reasons);
  }
#endif
 }
EOF
} else {
 print OUT <<"EOF";
{0,NULL}
 };

#endif

#ifdef ${lib}_LIB_NAME
static ERR_STRING_DATA ${lib}_lib_name[]=
      {
{0 ,${lib}_LIB_NAME},
{0,NULL}
 };
#endif


static int ${lib}_lib_error_code=0;
static int ${lib}_error_init=1;

${staticloader}void ERR_load_${lib}_strings(void)
 {
 if (${lib}_lib_error_code == 0)
  ${lib}_lib_error_code=ERR_get_next_error_library();

 if (${lib}_error_init)
  {
  ${lib}_error_init=0;
#ifndef OPENSSL_NO_ERR
  ERR_load_strings(${lib}_lib_error_code,${lib}_str_functs);
  ERR_load_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif

#ifdef ${lib}_LIB_NAME
  ${lib}_lib_name->error = ERR_PACK(${lib}_lib_error_code,0,0);
  ERR_load_strings(0,${lib}_lib_name);
#endif
  }
 }

${staticloader}void
```

```
 ERR_unload_${lib}_strings(void)
 {
 if (${lib}_error_init == 0)
  {
#ifndef OPENSSL_NO_ERR
  ERR_unload_strings(${lib}_lib_error_code,${lib}_str_functs);
  ERR_unload_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif

#ifdef ${lib}_LIB_NAME
  ERR_unload_strings(0,${lib}_lib_name);
#endif
  ${lib}_error_init=1;
  }
 }

${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
 {
 if (${lib}_lib_error_code == 0)
  ${lib}_lib_error_code=ERR_get_next_error_library();
 ERR_PUT_error(${lib}_lib_error_code,function,reason,file,line);
 }
EOF

}

 close OUT;
 undef %err_reason_strings;
}

if($debug && defined(%notrans)) {
 print STDERR "The following function codes were not translated:\n";
 foreach(sort keys %notrans)
 {
  print STDERR "$_\n";
 }
}

# Make a list of unreferenced function and reason codes

foreach (keys %fcodes) {
 push (@funref, $_) unless exists $ufcodes{$_};
}

foreach
 (keys %rcodes) {
 push (@runref, $_) unless exists $urcodes{$_};
}
```

```
if($debug && defined(@funref) ) {
 print STDERR "The following function codes were not referenced:\n";
 foreach(sort @funref)
 {
  print STDERR "$_\n";
 }
}

if($debug && defined(@runref) ) {
 print STDERR "The following reason codes were not referenced:\n";
 foreach(sort @runref)
 {
  print STDERR "$_\n";
 }
}

if($errcount) {
 print STDERR "There were errors, failing...\n\n";
 exit $errcount;
}
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips_rsa_sign.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips_ecdsa_lib.c
*
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#
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==
#
SHA512 for C64x.
#
November 2016
#
Performance is ~19 cycles per processed byte. Compared to block
transform function from sha512.c compiled with cl6x with -mv6400+
-o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
Loop unroll won't make it, this implementation, any faster, because

```
# it's effectively dominated by SHRU||SHL pairs and you can't schedule
# more of them.
#
# !!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve
 it and for own well-being
# zero it upon entry.

while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6");            # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi,         $T2hi)=         ("A6","A7");
($T1lo,$T1carry,$T2lo,$T2carry)=("B6","B7","B8","B9");
($Khi,$Klo)=("A9","A8");
($MAJhi,$MAJlo)=($T2hi,$T2lo);
($t1hi,$t1lo)=($Khi,"B2");
$CTXB=$t1lo;

($Xihi,$Xilo)=("A5","B5");   # circular/ring buffer

$code.=<<___;
 .text

 .if .ASSEMBLER_VERSION<7000000
 .asg 0,__TI_EABI__
 .endif
 .if __TI_EABI__
 .nocmp
 .asg sha512_block_data_order,_sha512_block_data_order
 .endif

 .asg B3,RA
 .asg A15,FP
 .asg B15,SP

 .if .BIG_ENDIAN
 .asg $Khi,KHI
 .asg $Klo,KLO
```

```
 .else
 .asg $Khi,KLO
 .asg $Klo,KHI
 .endif

 .global _sha512_block_data_order
_sha512_block_data_order:
__sha512_block:
 .asmfunc
 stack_usage(40+128)
 MV $NUM,A0    ; reassign $NUM
|| MVK -128,B0
 [!A0] BNOP RA    ; if ($NUM==0) return;
|| [A0] STW FP,*SP--(40)   ; save frame pointer
|| [A0] MV SP,FP
  [A0] STDW B13:B12,*SP[4]
|| [A0] MVK 0x00404,B1
  [A0] STDW B11:B10,*SP[3]
|| [A0] STDW A13:A12,*FP[-3]
|| [A0] MVKH 0x60000,B1
  [A0] STDW A11:A10,*SP[1]
|| [A0] MVC B1,AMR    ; setup circular addressing
|| [A0] ADD B0,SP,SP   ; alloca(128)
 .if __TI_EABI__
  [A0] AND B0,SP,SP   ; align stack at 128 bytes
|| [A0] ADDKPC __sha512_block,B1
|| [A0] MVKL \$PCR_OFFSET(K512,__sha512_block),$K512
  [A0] MVKH \$PCR_OFFSET(K512,__sha512_block),$K512
|| [A0] SUBAW SP,2,SP    ; reserve two words above buffer
 .else
  [A0] AND B0,SP,SP   ; align stack at 128 bytes
|| [A0] ADDKPC __sha512_block,B1
|| [A0] MVKL (K512-__sha512_block),$K512
   [A0] MVKH (K512-__sha512_block),$K512
|| [A0] SUBAW SP,2,SP    ; reserve two words above buffer
 .endif
 ADDAW SP,3,$Xilo
 ADD SP,4*2,$Xihi   ; ADDAW SP,2,$Xihi

|| MV $CTXA,$CTXB
 LDW *${CTXA}[0^.LITTLE_ENDIAN],$Ahi ; load ctx
|| LDW *${CTXB}[1^.LITTLE_ENDIAN],$Alo
|| ADD B1,$K512,$K512
 LDW *${CTXA}[2^.LITTLE_ENDIAN],$Bhi
|| LDW *${CTXB}[3^.LITTLE_ENDIAN],$Blo
 LDW *${CTXA}[4^.LITTLE_ENDIAN],$Chi
|| LDW *${CTXB}[5^.LITTLE_ENDIAN],$Clo
 LDW *${CTXA}[6^.LITTLE_ENDIAN],$Dhi
```

```
|| LDW *${CTXB}[7^.LITTLE_ENDIAN],$Dlo
 LDW *${CTXA}[8^.LITTLE_ENDIAN],$Ehi
|| LDW *${CTXB}[9^.LITTLE_ENDIAN],$Elo
 LDW *${CTXA}[10^.LITTLE_ENDIAN],$Fhi
|| LDW *${CTXB}[11^.LITTLE_ENDIAN],$Flo
 LDW *${CTXA}[12^.LITTLE_ENDIAN],$Ghi
|| LDW *${CTXB}[13^.LITTLE_ENDIAN],$Glo
 LDW *${CTXA}[14^.LITTLE_ENDIAN],$Hhi
|| LDW *${CTXB}[15^.LITTLE_ENDIAN],$Hlo

 LDNDW *$INP++,B11:B10   ; pre-fetch input
 LDDW *$K512++,$Khi:$Klo  ; pre-fetch K512[0]
outerloop?:
 MVK 15,B0    ; loop counters
|| MVK 64,B1
|| SUB A0,1,A0
 MV $Ahi,$Actxhi
|| MV $Alo,$Actxlo
|| MV $Bhi,$Bctxhi
|| MV $Blo,$Bctxlo
|| MV $Chi,$Cctxhi
|| MV $Clo,$Cctxlo
|| MVD $Dhi,$Dctxhi
|| MVD $Dlo,$Dctxlo
 MV $Ehi,$Ectxhi
|| MV $Elo,$Ectxlo
|| MV $Fhi,$Fctxhi
|| MV $Flo,$Fctxlo
|| MV $Ghi,$Gctxhi
|| MV $Glo,$Gctxlo
|| MVD $Hhi,$Hctxhi
|| MVD $Hlo,$Hctxlo
loop0_15?:
 .if .BIG_ENDIAN
 MV B11,$T1hi
|| MV B10,$T1lo
 .else
 SWAP4 B10,$T1hi
|| SWAP4 B11,$T1lo
 SWAP2 $T1hi,$T1hi
|| SWAP2 $T1lo,$T1lo
 .endif
 STW $T1hi,*$Xihi++[2]   ;
 original loop16_79?
|| STW $T1lo,*$Xilo++[2]   ; X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo  ; T1 += h
|| SHRU $Ehi,14,$S1hi
```

```
|| SHL $Ehi,32-14,$S1lo
loop16_79?:
 XOR $Fhi,$Ghi,$CHhi
|| XOR $Flo,$Glo,$CHlo
|| ADD KHI,$T1hi,$T1hi
|| ADDU KLO,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += K512[i]
|| SHRU $Elo,14,$t0lo
|| SHL $Elo,32-14,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Ehi,$CHhi,$CHhi
|| AND $Elo,$CHlo,$CHlo
|| ROTL $Ghi,0,$Hhi
|| ROTL $Glo,0,$Hlo    ; h = g
|| SHRU $Ehi,18,$t0hi
|| SHL $Ehi,32-18,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| XOR $Ghi,$CHhi,$CHhi
|| XOR $Glo,$CHlo,$CHlo   ;
 Ch(e,f,g) = ((f^g)&e)^g
|| ROTL $Fhi,0,$Ghi
|| ROTL $Flo,0,$Glo    ; g = f
|| SHRU $Elo,18,$t0lo
|| SHL $Elo,32-18,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| OR $Ahi,$Bhi,$MAJhi
|| OR $Alo,$Blo,$MAJlo
|| ROTL $Ehi,0,$Fhi
|| ROTL $Elo,0,$Flo    ; f = e
|| SHRU $Ehi,41-32,$t0lo
|| SHL $Ehi,64-41,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Chi,$MAJhi,$MAJhi
|| AND $Clo,$MAJlo,$MAJlo
|| ROTL $Dhi,0,$Ehi
|| ROTL $Dlo,0,$Elo    ; e = d
|| SHRU $Elo,41-32,$t0hi
|| SHL $Elo,64-41,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo   ; Sigma1(e)
|| AND $Ahi,$Bhi,$t1hi
|| AND $Alo,$Blo,$t1lo
|| ROTL $Chi,0,$Dhi
|| ROTL $Clo,0,$Dlo    ; d = c
|| SHRU $Ahi,28,$S0hi
```

```
|| SHL $Ahi,32-28,$S0lo
 OR $t1hi,$MAJhi,$MAJhi
|| OR $t1lo,$MAJlo,$MAJlo   ; Maj(a,b,c) = ((a|b)&c)|(a&b)
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ;
 T1 += Ch(e,f,g)
|| ROTL $Bhi,0,$Chi
|| ROTL $Blo,0,$Clo    ; c = b
|| SHRU $Alo,28,$t0lo
|| SHL $Alo,32-28,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Sigma1(e)
|| ROTL $Ahi,0,$Bhi
|| ROTL $Alo,0,$Blo    ; b = a
|| SHRU $Ahi,34-32,$t0lo
|| SHL $Ahi,64-34,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $MAJhi,$T1hi,$T2hi
|| ADDU $MAJlo,$T1carry:$T1lo,$T2carry:$T2lo ; T2 = T1+Maj(a,b,c)
|| SHRU $Alo,34-32,$t0hi
|| SHL $Alo,64-34,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $Ehi,$T1hi,$T1hi
|| ADDU $Elo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += e
|| SHRU $Ahi,39-32,$t0lo
|| SHL $Ahi,64-39,$t0hi
  [B0] BNOP loop0_15?
|| [B0] LDNDW *$INP++,B11:B10    ; pre-fetch input
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $Alo,39-32,$t0hi
|| SHL $Alo,64-39,$t0lo
||[!B0] LDW *${Xihi}[28],$T1hi
||[!B0] LDW *${Xilo}[28],$T1lo   ; X[i+14]
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo   ;
 Sigma0(a)
|| ADD $T1carry,$T1hi,$Ehi
|| ROTL $T1lo,0,$Elo    ; e = T1, "ghost" value
||[!B1] BNOP break?
 ADD $S0hi,$T2hi,$T2hi
|| ADDU $S0lo,$T2carry:$T2lo,$T2carry:$T2lo ; T2 += Sigma0(a)
|| [B1] LDDW *$K512++,$Khi:$Klo   ; pre-fetch K512[i]
 NOP      ; avoid cross-path stall
```

```
 ADD $T2carry,$T2hi,$Ahi
|| MV $T2lo,$Alo    ; a = T2
|| [B0] SUB B0,1,B0
;;===== branch to loop00_15? is taken here
  [B1] LDW *${Xihi}[2],$T2hi
|| [B1] LDW *${Xilo}[2],$T2lo   ; X[i+1]
|| [B1] SHRU $T1hi,19,$S1hi
|| [B1] SHL $T1hi,32-19,$S1lo
  [B1] SHRU $T1lo,19,$t0lo
|| [B1] SHL $T1lo,32-19,$t0hi
;;===== branch to break? is taken here
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,61-32,$t0lo
|| SHL $T1hi,64-61,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,61-32,$t0hi
|| SHL $T1lo,64-61,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,6,$t0hi
|| SHL $T1hi,32-6,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,6,$t0lo
|| LDW *${Xihi}[18],$T1hi
|| LDW *${Xilo}[18],$T1lo   ;
 X[i+9]
 XOR $t0lo,$S1lo,$S1lo   ; sigma1(Xi[i+14])

|| LDW *${Xihi}[0],$CHhi
|| LDW *${Xilo}[0],$CHlo   ; X[i]
|| SHRU $T2hi,1,$S0hi
|| SHL $T2hi,32-1,$S0lo
 SHRU $T2lo,1,$t0lo
|| SHL $T2lo,32-1,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2hi,8,$t0hi
|| SHL $T2hi,32-8,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2lo,8,$t0lo
|| SHL $T2lo,32-8,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
```

```
|| ADDU $S1lo,$T1lo,$T1carry:$T1lo  ; T1 = X[i+9]+sigma1()
|| SHRU $T2hi,7,$t0hi
|| SHL $T2hi,32-7,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += X[i]
|| SHRU $T2lo,7,$t0lo
|| [B1] BNOP loop16_79?
 XOR $t0lo,$S0lo,$S0lo   ; sigma0(Xi[i+1]

 ADD $S0hi,$T1hi,$T1hi
|| ADDU $S0lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += sigma0()
|| [B1] SUB B1,1,B1
 NOP      ; avoid cross-path stall
 ADD $T1carry,$T1hi,$T1hi

    STW $T1hi,*$Xihi++[2]   ; copied "top" bundle
|| STW $T1lo,*$Xilo++[2]   ; X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo  ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
;;===== branch to loop16_79? is taken here

break?:
 ADD $Ahi,$Actxhi,$Ahi  ; accumulate ctx
|| ADDU $Alo,$Actxlo,$Actxlo:$Alo
|| [A0] LDNDW *$INP++,B11:B10   ; pre-fetch input
|| [A0] ADDK -640,$K512   ; rewind pointer to K512
 ADD $Bhi,$Bctxhi,$Bhi
|| ADDU $Blo,$Bctxlo,$Bctxlo:$Blo
|| [A0] LDDW *$K512++,$Khi:$Klo  ; pre-fetch K512[0]
 ADD $Chi,$Cctxhi,$Chi
|| ADDU $Clo,$Cctxlo,$Cctxlo:$Clo
|| ADD $Actxlo,$Ahi,$Ahi
||[!A0] MV $CTXA,$CTXB
 ADD $Dhi,$Dctxhi,$Dhi
|| ADDU $Dlo,$Dctxlo,$Dctxlo:$Dlo
|| ADD $Bctxlo,$Bhi,$Bhi
||[!A0] STW $Ahi,*${CTXA}[0^.LITTLE_ENDIAN] ; save ctx
||[!A0] STW $Alo,*${CTXB}[1^.LITTLE_ENDIAN]
 ADD $Ehi,$Ectxhi,$Ehi
|| ADDU $Elo,$Ectxlo,$Ectxlo:$Elo
|| ADD $Cctxlo,$Chi,$Chi
|| [A0] BNOP outerloop?
||[!A0] STW $Bhi,*${CTXA}[2^.LITTLE_ENDIAN]
||[!A0] STW $Blo,*${CTXB}[3^.LITTLE_ENDIAN]
```

```
 ADD $Fhi,$Fctxhi,$Fhi
|| ADDU $Flo,$Fctxlo,$Fctxlo:$Flo
|| ADD $Dctxlo,$Dhi,$Dhi
||[!A0] STW $Chi,*${CTXA}[4^.LITTLE_ENDIAN]
||[!A0] STW $Clo,*${CTXB}[5^.LITTLE_ENDIAN]
 ADD $Ghi,$Gctxhi,$Ghi
|| ADDU $Glo,$Gctxlo,$Gctxlo:$Glo
|| ADD $Ectxlo,$Ehi,$Ehi
||[!A0] STW $Dhi,*${CTXA}[6^.LITTLE_ENDIAN]
||[!A0] STW $Dlo,*${CTXB}[7^.LITTLE_ENDIAN]
 ADD $Hhi,$Hctxhi,$Hhi
|| ADDU $Hlo,$Hctxlo,$Hctxlo:$Hlo
|| ADD $Fctxlo,$Fhi,$Fhi
||[!A0] STW $Ehi,*${CTXA}[8^.LITTLE_ENDIAN]
||[!A0] STW $Elo,*${CTXB}[9^.LITTLE_ENDIAN]
 ADD $Gctxlo,$Ghi,$Ghi
||[!A0] STW $Fhi,*${CTXA}[10^.LITTLE_ENDIAN]
||[!A0] STW $Flo,*${CTXB}[11^.LITTLE_ENDIAN]
 ADD $Hctxlo,$Hhi,$Hhi
||[!A0] STW $Ghi,*${CTXA}[12^.LITTLE_ENDIAN]
||[!A0] STW $Glo,*${CTXB}[13^.LITTLE_ENDIAN]
;;=====
 branch to outerloop? is taken here

 STW $Hhi,*${CTXA}[14^.LITTLE_ENDIAN]
|| STW $Hlo,*${CTXB}[15^.LITTLE_ENDIAN]
|| MVK -40,B0
 ADD FP,B0,SP   ; destroy circular buffer
|| LDDW *FP[-4],A11:A10
 LDDW *SP[2],A13:A12
|| LDDW *FP[-2],B11:B10
 LDDW *SP[4],B13:B12
|| BNOP RA
 LDW *++SP(40),FP   ;
 restore frame pointer
 MVK 0,B0
 MVC B0,AMR    ; clear AMR
 NOP 2    ; wait till FP is committed
 .endasmfunc

 .if __TI_EABI__
 .sect ".text:sha_asm.const"
 .else
 .sect ".const:sha_asm"
 .endif
 .align 128
K512:
 .uword 0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
```

```
.uword 0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0x8189dbbc
.uword 0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019
.uword 0x923f82a4,0xaf194f9b, 0xab1c5ed5,0xda6d8118
.uword 0xd807aa98,0xa3030242, 0x12835b01,0x45706fbe
.uword 0x243185be,0x4ee4b28c, 0x550c7dc3,0xd5ffb4e2
.uword 0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696b1
.uword 0x9bdc06a7,0x25c71235, 0xc19bf174,0xcf692694
.uword 0xe49b69c1,0x9ef14ad2, 0xefbe4786,0x384f25e3
.uword 0x0fc19dc6,0x8b8cd5b5, 0x240ca1cc,0x77ac9c65
.uword 0x2de92c6f,0x592b0275, 0x4a7484aa,0x6ea6e483
.uword 0x5cb0a9dc,0xbd41fbd4, 0x76f988da,0x831153b5
.uword 0x983e5152,0xee66dfab, 0xa831c66d,0x2db43210
.uword 0xb00327c8,0x98fb213f,
0xbf597fc7,0xbeef0ee4
.uword 0xc6e00bf3,0x3da88fc2, 0xd5a79147,0x930aa725
.uword 0x06ca6351,0xe003826f, 0x14292967,0x0a0e6e70
.uword 0x27b70a85,0x46d22ffc, 0x2e1b2138,0x5c26c926
.uword 0x4d2c6dfc,0x5ac42aed, 0x53380d13,0x9d95b3df
.uword 0x650a7354,0x8baf63de, 0x766a0abb,0x3c77b2a8
.uword 0x81c2c92e,0x47edaee6, 0x92722c85,0x1482353b
.uword 0xa2bfe8a1,0x4cf10364, 0xa81a664b,0xbc423001
.uword 0xc24b8b70,0xd0f89791, 0xc76c51a3,0x0654be30
.uword 0xd192e819,0xd6ef5218, 0xd6990624,0x5565a910
.uword 0xf40e3585,0x5771202a, 0x106aa070,0x32bbd1b8
.uword 0x19a4c116,0xb8d2d0c8, 0x1e376c08,0x5141ab53
.uword 0x2748774c,0xdf8eeb99, 0x34b0bcb5,0xe19b48a8
.uword 0x391c0cb3,0xc5c95a63, 0x4ed8aa4a,0xe3418acb
.uword 0x5b9cca4f,0x7763e373, 0x682e6ff3,0xd6b2b8a3
.uword 0x748f82ee,0x5defb2fc, 0x78a5636f,0x43172f60
.uword 0x84c87814,0xa1f0ab72, 0x8cc70208,0x1a6439ec
.uword 0x90befffa,0x23631e28, 0xa4506ceb,0xde82bde9
.uword 0xbef9a3f7,0xb2c67915, 0xc67178f2,0xe372532b
.uword 0xca273ece,0xea26619c,
0xd186b8c7,0x21c0c207
.uword 0xeada7dd6,0xcde0eb1e, 0xf57d4f7f,0xee6ed178
.uword 0x06f067aa,0x72176fba, 0x0a637dc5,0xa2c898a6
.uword 0x113f9804,0xbef90dae, 0x1b710b35,0x131c471b
.uword 0x28db77f5,0x23047d84, 0x32caab7b,0x40c72493
.uword 0x3c9ebe0a,0x15c9bebc, 0x431d67c4,0x9c100d4c
.uword 0x4cc5d4be,0xcb3e42b6, 0x597f299c,0xfc657e2a
.uword 0x5fcb6fab,0x3ad6faec, 0x6c44198c,0x4a475817
.cstring "SHA512 block transform for C64x, CRYPTOGAMS by <appro\@openssl.org>"
.align 4
___

print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsa_sign.c
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#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# SHA1 for C64x.
#
# November 2016
#
# This is fully-unrolled SHA1 implementation. It's 25% faster than
# one with compact loops, doesn't use in-memory ring buffer, as
# everything is accomodated in registers, and has "perfect" interrupt
# agility. Drawback is obviously the code size...

while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";
```

```
($CTX,$INP,$NUM) = ("A4","B4","A6");  # arguments

($A,$B,$C,$D,$E, $Arot,$F,$F0,$K) = map("A$_",(16..20, 21..24));
@V = ($A,$B,$C,$D,$E);
@X
 = map("B$_",(16..31));
($Actx,$Bctx,$Cctx,$Dctx,$Ectx) = map("A$_",(3,6..9)); # zaps $NUM

sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

$code.=<<___    if ($i<14);
 ROTL $a,5,$Arot  ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e  ; E+=K
||  LDNW *${INP}++,@X[$i+2]
 OR $F0,$F,$F  ; F_00_19(B,C,D)
|| ROTL $b,30,$b
||  SWAP2 @X[$i+1],@X[$i+1]
|| ADD @X[$i],$e,$e  ; E+=X[i]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
||  SWAP4 @X[$i+1],@X[$i+1]
 ADD $F,$e,$e  ; E+=F_00_19(B,C,D)
___
$code.=<<___    if ($i==14);
 ROTL $a,5,$Arot  ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e  ; E+=K
 OR $F0,$F,$F  ; F_00_19(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i],$e,$e  ; E+=X[i]
||  SWAP2 @X[$i+1],@X[$i+1]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
||  SWAP4 @X[$i+1],@X[$i+1]
 ADD $F,$e,$e  ; E+=F_00_19(B,C,D)
___
$code.=<<___    if ($i==15);
||  XOR @X[($j+2)&15],@X[$j],@X[$j]
 ROTL $a,5,$Arot  ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e  ; E+=K
||  XOR @X[($j+8)&15],@X[$j],@X[$j]
 OR $F0,$F,$F  ;
```

```
 F_00_19(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i],$e,$e  ; E+=X[i]
||  XOR @X[($j+13)&15],@X[$j],@X[$j]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
||  ROTL @X[$j],1,@X[$j]
 ADD $F,$e,$e  ; E+=F_00_19(B,C,D)
___
$code.=<<___    if ($i>15);
||  XOR @X[($j+2)&15],@X[$j],@X[$j]
 ROTL $a,5,$Arot  ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e  ; E+=K
||  XOR @X[($j+8)&15],@X[$j],@X[$j]
 OR $F0,$F,$F  ; F_00_19(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i&15],$e,$e  ; E+=X[i]
||  XOR @X[($j+13)&15],@X[$j],@X[$j]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
||  ROTL @X[$j],1,@X[$j]
 ADD $F,$e,$e  ; E+=F_00_19(B,C,D)
___
}

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

$code.=<<___    if ($i<79);
||  XOR @X[($j+2)&15],@X[$j],@X[$j]
 ROTL $a,5,$Arot  ;; $i
|| XOR $c,$b,$F
|| ADD $K,$e,$e  ; E+=K
||  XOR @X[($j+8)&15],@X[$j],@X[$j]
 XOR $d,$F,$F  ; F_20_39(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i&15],$e,$e  ; E+=X[i]
||  XOR @X[($j+13)&15],@X[$j],@X[$j]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
||
 ROTL @X[$j],1,@X[$j]
 ADD $F,$e,$e  ; E+=F_20_39(B,C,D)
___
$code.=<<___    if ($i==79);
|| [A0] B loop?
|| [A0] LDNW *${INP}++,@X[0]  ; pre-fetch input
 ROTL $a,5,$Arot  ;; $i
```

```
|| XOR $c,$b,$F
|| ADD $K,$e,$e  ; E+=K
|| [A0] LDNW *${INP}++,@X[1]
 XOR $d,$F,$F  ; F_20_39(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i&15],$e,$e  ; E+=X[i]
 ADD $Arot,$e,$e  ; E+=rot(A,5)
 ADD $F,$e,$e  ; E+=F_20_39(B,C,D)
|| ADD $Bctx,$a,$a  ; accumulate context
|| ADD $Cctx,$b,$b
 ADD $Dctx,$c,$c
|| ADD $Ectx,$d,$d
|| ADD $Actx,$e,$e
;;===== branch to loop? is taken here
___
}

sub BODY_40_59 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

$code.=<<___;
||  XOR @X[($j+2)&15],@X[$j],@X[$j]
 ROTL $a,5,$Arot  ;; $i
|| AND $c,$b,$F
|| AND $d,$b,$F0
|| ADD $K,$e,$e  ; E+=K
||  XOR @X[($j+8)&15],@X[$j],@X[$j]
 XOR $F0,$F,$F
|| AND $c,$d,$F0
|| ROTL $b,30,$b
||  XOR @X[($j+13)&15],@X[$j],@X[$j]
|| ADD @X[$i&15],$e,$e  ; E+=X[i]
 XOR $F0,$F,$F  ; F_40_59(B,C,D)
|| ADD $Arot,$e,$e  ; E+=rot(A,5)
||  ROTL @X[$j],1,@X[$j]
 ADD $F,$e,$e  ;
 E+=F_20_39(B,C,D)
___
}

$code=<<___;
 .text

 .if .ASSEMBLER_VERSION<7000000
 .asg 0,__TI_EABI__
 .endif
 .if __TI_EABI__
```

```
 .asg sha1_block_data_order,_sha1_block_data_order
 .endif

 .asg B3,RA
 .asg A15,FP
 .asg B15,SP

 .if .BIG_ENDIAN
 .asg MV,SWAP2
 .asg MV,SWAP4
 .endif

 .global _sha1_block_data_order
_sha1_block_data_order:
 .asmfunc
 MV $NUM,A0   ; reassign $NUM
 [!A0] BNOP RA   ; if ($NUM==0) return;
|| [A0] LDW *${CTX}[0],$A  ; load A-E...
  [A0] LDW *${CTX}[1],$B
  [A0] LDW *${CTX}[2],$C
  [A0] LDW *${CTX}[3],$D
  [A0] LDW *${CTX}[4],$E
  [A0] LDNW *${INP}++,@X[0]  ; pre-fetch input
  [A0] LDNW *${INP}++,@X[1]
 NOP 3

loop?:
 SUB A0,1,A0
|| MV $A,$Actx
|| MVD $B,$Bctx
|| SWAP2 @X[0],@X[0]
|| MVKL 0x5a827999,$K
 MVKH 0x5a827999,$K  ; K_00_19
|| MV $C,$Cctx
|| MV $D,$Dctx
|| MVD $E,$Ectx
|| SWAP4 @X[0],@X[0]
___
for ($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
|| MVKL 0x6ed9eba1,$K
 MVKH 0x6ed9eba1,$K  ; K_20_39
___
for
 (;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
|| MVKL 0x8f1bbcdc,$K
 MVKH 0x8f1bbcdc,$K  ; K_40_59
```

```
___
for (;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
|| MVKL 0xca62c1d6,$K
 MVKH 0xca62c1d6,$K  ; K_60_79
___
for (;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
 BNOP RA   ; return
 STW $A,*${CTX}[0]  ; emit A-E...
 STW $B,*${CTX}[1]
 STW $C,*${CTX}[2]
 STW $D,*${CTX}[3]
 STW $E,*${CTX}[4]
 .endasmfunc

 .sect .const
 .cstring "SHA1 block transform for C64x, CRYPTOGAMS by <appro\@openssl.org>"
 .align 4
___

print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86_64-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-586.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-armv8.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-parisc.pl
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/ppc-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-alpha.pl
*
/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-sparcv9a.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-sha1-x86_64.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-586.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-x86_64.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-thumb.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-parisc.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-sparcv9.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512p8-ppc.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-armv4.pl
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-armv8.pl
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*
/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-sparcv9.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-armv4.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-sparcv9.pl
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-c64x.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86_64-gf2m.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-armv4.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-ppc.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-x86.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/mips-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-mips.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/parisc-mont.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-c64xplus.pl
*
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-c64x.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-alpha.pl
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```
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#
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# 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/.
# ====================================================================
#
# December 2011
#
# The module implements GCM GHASH function and underlying single
# multiplication operation in GF(2^128). Even though subroutines
# have _4bit suffix, they are not using any tables, but rely on
# hardware Galois Field Multiply support. Streamed GHASH processes
# byte in ~7 cycles, which is >6x faster than "4-bit" table-driven
# code compiled with TI's cl6x 6.0 with -mv6400+ -o2 flags. We are
# comparing apples vs. oranges, but compiler surely could have done
# better, because theoretical
 [though not necessarily achievable]
# estimate for "4-bit" table-driven implementation is ~12 cycles.

while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

($Xip,$Htable,$inp,$len)=("A4","B4","A6","B6"); # arguments

($Z0,$Z1,$Z2,$Z3, $H0, $H1, $H2, $H3,
  $H0x,$H1x,$H2x,$H3x)=map("A$_",(16..27));
($H01u,$H01y,$H2u,$H3u, $H0y,$H1y,$H2y,$H3y,
  $H0z,$H1z,$H2z,$H3z)=map("B$_",(16..27));
($FF000000,$E10000)=("B30","B31");
($xip,$x0,$x1,$xib)=map("B$_",(6..9)); # $xip zaps $len
$xia="A9";
($rem,$res)=("B4","B5");  # $rem zaps $Htable

$code.=<<___;
 .text

 .asg B3,RA
```

```
 .if 0
 .global _gcm_gmult_1bit
_gcm_gmult_1bit:
 ADDAD $Htable,2,$Htable
 .endif
 .global _gcm_gmult_4bit
_gcm_gmult_4bit:
 .asmfunc
 LDDW *${Htable}[-1],$H1:$H0 ; H.lo
 LDDW *${Htable}[-2],$H3:$H2 ; H.hi
|| MV $Xip,${xip}  ; reassign Xi
|| MVK 15,B1   ; SPLOOPD constant

 MVK 0xE1,$E10000
|| LDBU *++${xip}[15],$x1 ; Xi[15]
 MVK 0xFF,$FF000000
|| LDBU *--${xip},$x0  ; Xi[14]
 SHL $E10000,16,$E10000 ;
 [pre-shifted] reduction polynomial
 SHL $FF000000,24,$FF000000 ; upper byte mask
|| BNOP ghash_loop?
|| MVK 1,B0   ; take a single spin

 PACKH2 $H0,$H1,$xia  ; pack H0' and H1's upper bytes
 AND $H2,$FF000000,$H2u ; H2's upper byte
 AND $H3,$FF000000,$H3u ; H3's upper byte
|| SHRU $H2u,8,$H2u
 SHRU $H3u,8,$H3u
|| ZERO $Z1:$Z0
 SHRU2 $xia,8,$H01u
|| ZERO $Z3:$Z2
 .endasmfunc

 .global _gcm_ghash_4bit
_gcm_ghash_4bit:
 .asmfunc
 LDDW *${Htable}[-1],$H1:$H0 ; H.lo
|| SHRU $len,4,B0  ; reassign len
 LDDW *${Htable}[-2],$H3:$H2 ; H.hi
|| MV $Xip,${xip}  ; reassign Xi
|| MVK 15,B1   ; SPLOOPD constant

 MVK 0xE1,$E10000
|| [B0] LDNDW *${inp}[1],$H1x:$H0x
 MVK 0xFF,$FF000000
|| [B0] LDNDW *${inp}++[2],$H3x:$H2x
 SHL $E10000,16,$E10000 ; [pre-shifted] reduction polynomial
```

```
|| LDDW *${xip}[1],$Z1:$Z0
 SHL $FF000000,24,$FF000000 ; upper byte mask
|| LDDW *${xip}[0],$Z3:$Z2

 PACKH2 $H0,$H1,$xia  ; pack H0' and H1's upper bytes
 AND $H2,$FF000000,$H2u ; H2's upper byte
 AND $H3,$FF000000,$H3u ;
 H3's upper byte
|| SHRU $H2u,8,$H2u
 SHRU $H3u,8,$H3u
 SHRU2 $xia,8,$H01u

|| [B0] XOR $H0x,$Z0,$Z0  ; Xi^=inp
|| [B0] XOR $H1x,$Z1,$Z1
 .if .LITTLE_ENDIAN
  [B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] SHRU $Z1,24,$xia  ; Xi[15], avoid cross-path stall
 STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z1,16,$x0  ; Xi[14]
|| [B0] ZERO $Z1:$Z0
 .else
  [B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] MV $Z0,$xia  ; Xi[15], avoid cross-path stall
 STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z0,8,$x0  ; Xi[14]
|| [B0] ZERO $Z1:$Z0
 .endif
 STDW $Z3:$Z2,*${xip}[0]
|| [B0] ZERO $Z3:$Z2
|| [B0] MV $xia,$x1
  [B0] ADDK 14,${xip}

ghash_loop?:
 SPLOOPD 6   ; 6*16+7
|| MVC B1,ILC
|| [B0] SUB B0,1,B0
|| ZERO A0
|| ADD $x1,$x1,$xib  ; SHL $x1,1,$xib
|| SHL $x1,1,$xia
___

########_____________________________
#  0    D2.     M1          M2      |
#  1            M1                  |
#  2            M1          M2      |
#  3        D1. M1          M2      |
```

```
# 4       S1. L1
          |
# 5    S2  S1x L1         D2  L2  |_____________________________
# 6/0         L1  S1      L2  S2x |D2.     M1          M2      |
# 7/1         L1  S1  D1x S2  M2  |       M1                    |
# 8/2             S1  L1x S2      |       M1          M2      |
# 9/3             S1  L1x         |    D1. M1         M2      |
# 10/4                D1x         |    S1. L1                 |
# 11/5                            |S2  S1x L1         D2  L2  |_____________
# 12/6/0              D1x       __|       L1  S1      L2  S2x |D2.     ....
#    7/1                              L1  S1  D1x S2  M2  |       ....
#    8/2                                S1  L1x S2      |       ....
######...                               .................|.............
$code.=<<___;
 XORMPY $H0,$xia,$H0x  ; 0 ; HXi[i]
|| XORMPY $H01u,$xib,$H01y
|| [A0] LDBU *--${xip},$x0
 XORMPY $H1,$xia,$H1x  ; 1
 XORMPY $H2,$xia,$H2x  ; 2
|| XORMPY $H2u,$xib,$H2y
 XORMPY $H3,$xia,$H3x  ;
 3
|| XORMPY $H3u,$xib,$H3y
||[!A0] MVK.D 15,A0    ; *--${xip} counter
 XOR.L $H0x,$Z0,$Z0  ; 4 ; Z^=HXi[i]
|| [A0] SUB.S A0,1,A0
 XOR.L $H1x,$Z1,$Z1  ; 5
|| AND.D $H01y,$FF000000,$H0z
|| SWAP2.L $H01y,$H1y  ; ; SHL $H01y,16,$H1y
|| SHL $x0,1,$xib
|| SHL $x0,1,$xia

 XOR.L $H2x,$Z2,$Z2  ; 6/0 ; [0,0] in epilogue
|| SHL $Z0,1,$rem  ; ; rem=Z<<1
|| SHRMB.S $Z1,$Z0,$Z0  ; ; Z>>=8
|| AND.L $H1y,$FF000000,$H1z
 XOR.L $H3x,$Z3,$Z3  ; 7/1
|| SHRMB.S $Z2,$Z1,$Z1
|| XOR.D $H0z,$Z0,$Z0   ; merge upper byte products
|| AND.S $H2y,$FF000000,$H2z
|| XORMPY $E10000,$rem,$res ; ; implicit rem&0x1FE
 XOR.L $H1z,$Z1,$Z1  ; 8/2
|| SHRMB.S $Z3,$Z2,$Z2
|| AND.S $H3y,$FF000000,$H3z
 XOR.L $H2z,$Z2,$Z2  ; 9/3
|| SHRU $Z3,8,$Z3
 XOR.D $H3z,$Z3,$Z3  ; 10/4
 NOP    ; 11/5
```

```
 SPKERNEL 0,2
|| XOR.D $res,$Z3,$Z3  ; 12/6/0; Z^=res

 ; input pre-fetch is possible where D1 slot is available...
  [B0] LDNDW *${inp}[1],$H1x:$H0x ; 8/-
  [B0] LDNDW *${inp}++[2],$H3x:$H2x ; 9/-
 NOP    ; 10/-
 .if .LITTLE_ENDIAN
 SWAP2 $Z0,$Z1   ;
 11/-
|| SWAP4 $Z1,$Z0
 SWAP4 $Z1,$Z1   ; 12/-
|| SWAP2 $Z0,$Z0
 SWAP2 $Z2,$Z3
|| SWAP4 $Z3,$Z2
||[!B0] BNOP RA
 SWAP4 $Z3,$Z3
|| SWAP2 $Z2,$Z2
|| [B0] BNOP ghash_loop?
  [B0] XOR $H0x,$Z0,$Z0  ; Xi^=inp
|| [B0] XOR $H1x,$Z1,$Z1
  [B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] SHRU $Z1,24,$xia  ; Xi[15], avoid cross-path stall
 STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z1,16,$x0  ; Xi[14]
|| [B0] ZERO $Z1:$Z0
 .else
 [!B0] BNOP RA   ; 11/-
  [B0] BNOP ghash_loop?  ; 12/-
  [B0] XOR $H0x,$Z0,$Z0  ; Xi^=inp
|| [B0] XOR $H1x,$Z1,$Z1
  [B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] MV $Z0,$xia  ; Xi[15], avoid cross-path stall
 STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z0,8,$x0  ; Xi[14]
|| [B0] ZERO $Z1:$Z0
 .endif
 STDW $Z3:$Z2,*${xip}[0]
|| [B0] ZERO $Z3:$Z2
|| [B0] MV $xia,$x1
  [B0] ADDK 14,${xip}
 .endasmfunc

 .sect .const
 .cstring "GHASH for C64x+, CRYPTOGAMS by <appro\@openssl.org>"
```

```
 .align 4
—

print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/des_locl.h
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/objects/objects.pl
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/objects/obj_dat.h
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*
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# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# February 2012
#
# The module implements bn_GF2m_mul_2x2 polynomial multiplication
# used in bn_gf2m.c. It's kind of low-hanging mechanical port from
# C for the time being... The subroutine runs in 37 cycles, which is
# 4.5x faster than compiler-generated code. Though comparison is
# totally unfair, because this module utilizes Galois Field Multiply
# instruction.

while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

($rp,$a1,$a0,$b1,$b0)=("A4","B4","A6","B6","A8");   # argument
 vector

($Alo,$Alox0,$Alox1,$Alox2,$Alox3)=map("A$_",(16..20));
($Ahi,$Ahix0,$Ahix1,$Ahix2,$Ahix3)=map("B$_",(16..20));
($B_0,$B_1,$B_2,$B_3)=("B5","A5","A7","B7");
($A,$B)=($Alo,$B_1);
$xFF="B1";

sub mul_1x1_upper {
my ($A,$B)=@_;
$code.=<<___;
 EXTU $B,8,24,$B_2  ; smash $B to 4 bytes
|| AND $B,$xFF,$B_0
|| SHRU $B,24,$B_3
 SHRU $A,16,   $Ahi  ; smash $A to two halfwords
|| EXTU $A,16,16,$Alo

 XORMPY $Alo,$B_2,$Alox2 ; 16x8 bits muliplication
|| XORMPY $Ahi,$B_2,$Ahix2
```

```
|| EXTU $B,16,24,$B_1
 XORMPY $Alo,$B_0,$Alox0
|| XORMPY $Ahi,$B_0,$Ahix0
 XORMPY $Alo,$B_3,$Alox3
|| XORMPY $Ahi,$B_3,$Ahix3
 XORMPY $Alo,$B_1,$Alox1
|| XORMPY $Ahi,$B_1,$Ahix1
___
}
sub mul_1x1_merged {
my ($OUTlo,$OUThi,$A,$B)=@_;
$code.=<<___;
  EXTU $B,8,24,$B_2  ; smash $B to 4 bytes
||  AND $B,$xFF,$B_0
||  SHRU $B,24,$B_3
  SHRU $A,16,   $Ahi  ; smash $A to two halfwords
||  EXTU $A,16,16,$Alo

 XOR $Ahix0,$Alox2,$Ahix0
|| MV $Ahix2,$OUThi
||  XORMPY $Alo,$B_2,$Alox2
  XORMPY $Ahi,$B_2,$Ahix2
||  EXTU $B,16,24,$B_1
||
 XORMPY $Alo,$B_0,A1  ; $Alox0
 XOR $Ahix1,$Alox3,$Ahix1
|| SHL $Ahix0,16,$OUTlo
|| SHRU $Ahix0,16,$Ahix0
 XOR $Alox0,$OUTlo,$OUTlo
|| XOR $Ahix0,$OUThi,$OUThi
||  XORMPY $Ahi,$B_0,$Ahix0
||  XORMPY $Alo,$B_3,$Alox3
|| SHL $Alox1,8,$Alox1
|| SHL $Ahix3,8,$Ahix3
 XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix3,$OUThi,$OUThi
||  XORMPY $Ahi,$B_3,$Ahix3
|| SHL $Ahix1,24,$Alox1
|| SHRU $Ahix1,8, $Ahix1
 XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUThi,$OUThi
||  XORMPY $Alo,$B_1,$Alox1
||  XORMPY $Ahi,$B_1,$Ahix1
||  MV A1,$Alox0
___
}
sub mul_1x1_lower {
my ($OUTlo,$OUThi)=@_;
```

```
$code.=<<___;
 ;NOP
 XOR $Ahix0,$Alox2,$Ahix0
|| MV $Ahix2,$OUThi
 NOP
 XOR $Ahix1,$Alox3,$Ahix1
|| SHL $Ahix0,16,$OUTlo
|| SHRU $Ahix0,16,$Ahix0
 XOR $Alox0,$OUTlo,$OUTlo
|| XOR $Ahix0,$OUThi,$OUThi
|| SHL $Alox1,8,$Alox1
|| SHL $Ahix3,8,$Ahix3
 XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix3,$OUThi,$OUThi
|| SHL $Ahix1,24,$Alox1
|| SHRU $Ahix1,8, $Ahix1
 XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUThi,$OUThi
___
}
$code.=<<___;
 .text

 .global _bn_GF2m_mul_2x2
_bn_GF2m_mul_2x2:
 .asmfunc
 MVK 0xFF,$xFF
___
 &mul_1x1_upper($a0,$b0);  #
 a0b0
$code.=<<___;
|| MV $b1,$B
 MV $a1,$A
___
 &mul_1x1_merged("A28","B28",$A,$B); # a0b0/a1b1
$code.=<<___;
|| XOR $b0,$b1,$B
 XOR $a0,$a1,$A
___
 &mul_1x1_merged("A31","B31",$A,$B); # a1b1/(a0+a1)(b0+b1)
$code.=<<___;
 XOR A28,A31,A29
|| XOR B28,B31,B29   ; a0b0+a1b1
___
 &mul_1x1_lower("A30","B30");  # (a0+a1)(b0+b1)
$code.=<<___;
|| BNOP B3
 XOR A29,A30,A30
```

```
|| XOR B29,B30,B30   ; (a0+a1)(b0+b1)-a0b0-a1b1
 XOR B28,A30,A30
|| STW A28,*${rp}[0]
 XOR B30,A31,A31
|| STW A30,*${rp}[1]
 STW A31,*${rp}[2]
 STW B31,*${rp}[3]
 .endasmfunc
___

print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips_rsavtest.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/cmac/fips_cmactest.c
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips_rsastest.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_pss.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_x931p.c
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```
/**
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
```

* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips_ecdsavs.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_hash.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dh/fips_dhvs.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_rand.c
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while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

$code.=<<___;
 .text

 .if .ASSEMBLER_VERSION<7000000
 .asg 0,__TI_EABI__
 .endif
 .if __TI_EABI__
 .asg OPENSSL_rdtsc,_OPENSSL_rdtsc
 .asg OPENSSL_cleanse,_OPENSSL_cleanse
 .asg CRYPTO_memcmp,_CRYPTO_memcmp
 .asg OPENSSL_atomic_add,_OPENSSL_atomic_add
 .asg OPENSSL_wipe_cpu,_OPENSSL_wipe_cpu
```

```
 .asg OPENSSL_instrument_bus,_OPENSSL_instrument_bus
 .asg OPENSSL_instrument_bus2,_OPENSSL_instrument_bus2
 .endif

 .asg B3,RA
 .asg 0x01AC0000,TIMER_BASE ; Timer 2

 .global _OPENSSL_rdtsc
_OPENSSL_rdtsc:
 .asmfunc
 MVKL TIMER_BASE,A5
 MVKH TIMER_BASE,A5
 LDW *A5[0],A2 ;
 load CTL
 LDW *A5[2],A4 ; load CTN
 NOP 2
 .if .BIG_ENDIAN
 MVK 0x2c0,A7 ; internal clock source, don't hold, go
|| MVK -1,A6  ; maximum period
 .else
 MVK 0x2c0,A6 ; internal clock source, don't hold, go
|| MVK -1,A7  ; maximum period
 .endif
 [!A2] STDW A7:A6,*A5[0] ; fire it up
|| BNOP RA,5
 .endasmfunc

 .global _OPENSSL_cleanse
_OPENSSL_cleanse:
 .asmfunc
 ZERO A3:A2
|| ZERO B2
|| SHRU B4,3,B0  ; is length >= 8
|| ADD 1,A4,B6
 [!B0] BNOP RA
|| [B0] SUB B0,1,B2
|| ZERO A1
|| ZERO B1
  [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 0,B4,A1
||[!B0] CMPLT 1,B4,B1
|| ZERO B5
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 2,B4,A1
||[!B0] CMPLT 3,B4,B1
  [A1] STB A2,*A4++[2]
```

```
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 4,B4,A1
||[!B0] CMPLT 5,B4,B1
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 6,B4,A1
  [A1] STB A2,*A4++[2]
||
 [B2] BDEC cleanse_loop?,B2

cleanse_loop?:
 STNDW A3:A2,*A4++
|| SUB B4,8,B4
|| [B2] BDEC cleanse_loop?,B2

 MV B4,B0  ; remaining bytes
|| ADD 1,A4,B6
|| BNOP RA
  [B0] CMPLT 0,B0,A1
|| [B0] CMPLT 1,B0,B1
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B0] CMPLT 2,B0,A1
|| [B0] CMPLT 3,B0,B1
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B0] CMPLT 4,B0,A1
|| [B0] CMPLT 5,B0,B1
  [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B0] CMPLT 6,B0,A1
  [A1] STB A2,*A4++[2]
 .endasmfunc

 .if 0
 .global _CRYPTO_memcmp
_CRYPTO_memcmp:
 .asmfunc
 MV A6,B0
 [!B0] BNOP RA
||[!B0] ZERO A4
|| [B0] ZERO A1:A0
  [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
  [B0] LDBU *A4++,A5
```

```
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
  [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
  [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
  [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
 XOR A5,B5,A1
||
 [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0

memcmp_loop?:
 OR A1,A0,A0
|| XOR A5,B5,A1
|| [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0

 BNOP RA,3
 ZERO A4
 [A0] MVK 1,A4
 .endasmfunc
 .endif

 .global _OPENSSL_atomic_add
_OPENSSL_atomic_add:
 .asmfunc
 BNOP atomic_store? ; pre-C64x+ systems are uni-processor, it's
|| LDW *A4,B5  ; enough to hold interrupts off through
    ; the load-update-store cycle to achieve
    ; atomicity
 NOP
 BNOP RA,3  ; and this branch stretches even over store
 ADD B4,B5,B5
atomic_store?:
 STW B5,*A4
|| MV B5,A4
 .endasmfunc

 .global _OPENSSL_wipe_cpu
_OPENSSL_wipe_cpu:
 .asmfunc
```

```
 ZERO A0
|| ZERO B0
|| ZERO A1
|| ZERO B1
 ZERO A3:A2
|| MVD B0,B2
|| ZERO A4
|| ZERO B4
|| ZERO A5
|| ZERO B5
|| BNOP RA
 ZERO A7:A6
|| ZERO B7:B6
|| ZERO A8
|| ZERO B8
|| ZERO A9
|| ZERO B9
 ZERO A17:A16
|| ZERO B17:B16
|| ZERO A18
|| ZERO B18
|| ZERO A19
|| ZERO B19
 ZERO A21:A20
|| ZERO B21:B20
|| ZERO A22
|| ZERO B22
|| ZERO A23
|| ZERO B23
 ZERO A25:A24
|| ZERO B25:B24
|| ZERO A26
|| ZERO B26
|| ZERO A27
|| ZERO B27
 ZERO A29:A28
|| ZERO B29:B28
|| ZERO A30
|| ZERO B30
|| ZERO A31
|| ZERO B31
 .endasmfunc

CLFLUSH .macro CONTROL,ADDR,LEN
 B passthrough?
|| STW ADDR,*CONTROL[0]
 STW LEN,*CONTROL[1]
spinlock?:
```

```
 LDW *CONTROL[1],A0
 NOP 3
passthrough?:
 NOP
  [A0] BNOP spinlock?,5
 .endm

 .global _OPENSSL_instrument_bus
_OPENSSL_instrument_bus:
 .asmfunc
 MV B4,B0   ; reassign sizeof(output)
|| MV A4,B4   ; reassign output
|| MVK 0x00004030,A3
|| MVKL TIMER_BASE,B16
 MV B0,A4   ; return value
|| MVK 1,A1
|| MVKH 0x01840000,A3  ; L1DWIBAR
|| MVKH TIMER_BASE,B16
 LDW *B16[2],B8  ; collect 1st tick
|| MVK 0x00004010,A5
 NOP 4
 MV B8,B9   ; lasttick = tick
|| MVK 0,B7   ; lastdiff = 0
|| MVKH 0x01840000,A5  ; L2WIBAR
 CLFLUSH A3,B4,A1  ; write-back and invalidate L1D line
 CLFLUSH A5,B4,A1  ; write-back and invalidate L2 line
 LDW *B4,B5
 NOP 4
 ADD B7,B5,B5
 STW B5,*B4
bus_loop1?:
 LDW *B16[2],B8
||
 [B0] SUB B0,1,B0
 NOP 4
 SUB B8,B9,B7  ; lastdiff = tick - lasttick
|| MV B8,B9   ; lasttick = tick
 CLFLUSH A3,B4,A1  ; write-back and invalidate L1D line
 CLFLUSH A5,B4,A1  ; write-back and invalidate L2 line
 LDW *B4,B5
 NOP 4
 ADD B7,B5,B5
 STW B5,*B4   ; [!B1] is removed to flatten samples
|| ADDK 4,B4
|| [B0] BNOP bus_loop1?,5

 BNOP RA,5
 .endasmfunc
```

```
 .global _OPENSSL_instrument_bus2
_OPENSSL_instrument_bus2:
 .asmfunc
 MV A6,B0   ; reassign max
|| MV B4,A6   ; reassing sizeof(output)
|| MVK 0x00004030,A3
|| MVKL TIMER_BASE,B16
 MV A4,B4   ; reassign output
|| MVK 0,A4   ; return value
|| MVK 1,A1
|| MVKH 0x01840000,A3  ; L1DWIBAR
|| MVKH TIMER_BASE,B16

 LDW *B16[2],B8  ; collect 1st tick
|| MVK 0x00004010,A5
 NOP 4
 MV B8,B9   ; lasttick = tick
|| MVK 0,B7   ; lastdiff = 0
|| MVKH 0x01840000,A5  ; L2WIBAR
 CLFLUSH A3,B4,A1  ; write-back and invalidate L1D line
 CLFLUSH A5,B4,A1  ; write-back and invalidate L2 line
 LDW *B4,B5
 NOP 4
 ADD B7,B5,B5
 STW B5,*B4

 LDW *B16[2],B8  ;
 collect 1st diff
 NOP 4
 SUB B8,B9,B7  ; lastdiff = tick - lasttick
|| MV B8,B9   ; lasttick = tick
|| SUB B0,1,B0
bus_loop2?:
 CLFLUSH A3,B4,A1  ; write-back and invalidate L1D line
 CLFLUSH A5,B4,A1  ; write-back and invalidate L2 line
 LDW *B4,B5
 NOP 4
 ADD B7,B5,B5
 STW B5,*B4   ; [!B1] is removed to flatten samples
||[!B0] BNOP bus_loop2_done?,2
|| SUB B0,1,B0
 LDW *B16[2],B8
 NOP 4
 SUB B8,B9,B8
|| MV B8,B9
 CMPEQ B8,B7,B2
|| MV B8,B7
```

```
 [!B2] ADDAW B4,1,B4
||[!B2] ADDK 1,A4
 CMPEQ A4,A6,A2
 [!A2] BNOP bus_loop2?,5

bus_loop2_done?:
 BNOP RA,5
 .endasmfunc

 .if __TI_EABI__
 .sect ".init_array"
 .else
 .sect ".pinit"
 .endif
 .align 4
 .long _OPENSSL_rdtsc  ; auto-start timer
___

print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cryptlib.c
* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/crypto.h
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* The elliptic curve binary polynomial software is originally written by
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*/
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/ec/ec_curve.c
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```
#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# SHA512 for C64x+.
#
# January 2012
#
# Performance is 19 cycles per processed byte. Compared to block
# transform function from sha512.c compiled with cl6x with -mv6400+
# -o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
# Loop unroll won't make it, this implementation, any faster, because
# it's effectively dominated by SHRU||SHL pairs and you can't schedule
# more of them.
#
# !!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve
 it and for own well-being
# zero it upon entry.

while (($output=shift) && ($output!~/\w[\w\-]*\.\w+$/)) {}
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6");            # arguments
$K512="A3";
```

```
($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi,        $T2hi)=        ("A6","A7");
($T1lo,$T1carry,$T2lo,$T2carry)=("B6","B7","B8","B9");
($Khi,$Klo)=("A9","A8");
($MAJhi,$MAJlo)=($T2hi,$T2lo);
($t1hi,$t1lo)=($Khi,"B2");
$CTXB=$t1lo;

($Xihi,$Xilo)=("A5","B5");   # circular/ring buffer

$code.=<<___;
 .text

 .asg B3,RA
 .asg A15,FP
 .asg B15,SP

 .if .BIG_ENDIAN
 .asg $Khi,KHI
 .asg $Klo,KLO
 .else
 .asg $Khi,KLO
 .asg $Klo,KHI
 .endif

 .global _sha512_block_data_order
_sha512_block_data_order:
 .asmfunc
 stack_usage(40+128)
 MV $NUM,A0    ; reassign $NUM
|| MVK -128,B0
 [!A0] BNOP RA    ; if ($NUM==0) return;
|| [A0] STW FP,*SP--(40)   ; save frame pointer
|| [A0] MV SP,FP
  [A0] STDW B13:B12,*SP[4]
|| [A0] MVK 0x00404,B1
  [A0] STDW B11:B10,*SP[3]
|| [A0] STDW A13:A12,*FP[-3]
|| [A0] MVKH 0x60000,B1
  [A0] STDW A11:A10,*SP[1]
|| [A0] MVC B1,AMR    ; setup circular addressing
|| [A0] ADD B0,SP,SP   ; alloca(128)
```

```
  [A0] AND B0,SP,SP   ; align stack at 128 bytes
|| [A0] ADDKPC _sha512_block_data_order,B1
|| [A0] MVKL (K512-_sha512_block_data_order),$K512
  [A0] MVKH (K512-_sha512_block_data_order),$K512
|| [A0] SUBAW SP,2,SP    ; reserve two words above buffer
 ADDAW SP,3,$Xilo
 ADDAW SP,2,$Xihi

|| MV $CTXA,$CTXB
 LDW *${CTXA}[0^.LITTLE_ENDIAN],$Ahi ; load ctx
|| LDW *${CTXB}[1^.LITTLE_ENDIAN],$Alo
|| ADD B1,$K512,$K512
 LDW *${CTXA}[2^.LITTLE_ENDIAN],$Bhi
|| LDW *${CTXB}[3^.LITTLE_ENDIAN],$Blo
 LDW *${CTXA}[4^.LITTLE_ENDIAN],$Chi
|| LDW *${CTXB}[5^.LITTLE_ENDIAN],$Clo
 LDW *${CTXA}[6^.LITTLE_ENDIAN],$Dhi
|| LDW *${CTXB}[7^.LITTLE_ENDIAN],$Dlo
 LDW *${CTXA}[8^.LITTLE_ENDIAN],$Ehi
|| LDW *${CTXB}[9^.LITTLE_ENDIAN],$Elo
 LDW *${CTXA}[10^.LITTLE_ENDIAN],$Fhi
|| LDW *${CTXB}[11^.LITTLE_ENDIAN],$Flo
 LDW *${CTXA}[12^.LITTLE_ENDIAN],$Ghi
|| LDW *${CTXB}[13^.LITTLE_ENDIAN],$Glo
 LDW *${CTXA}[14^.LITTLE_ENDIAN],$Hhi
|| LDW *${CTXB}[15^.LITTLE_ENDIAN],$Hlo

 LDNDW *$INP++,B11:B10   ;
 pre-fetch input
 LDDW *$K512++,$Khi:$Klo  ; pre-fetch K512[0]
outerloop?:
 MVK 15,B0    ; loop counters
|| MVK 64,B1
|| SUB A0,1,A0
 MV $Ahi,$Actxhi
|| MV $Alo,$Actxlo
|| MV $Bhi,$Bctxhi
|| MV $Blo,$Bctxlo
|| MV $Chi,$Cctxhi
|| MV $Clo,$Cctxlo
|| MVD $Dhi,$Dctxhi
|| MVD $Dlo,$Dctxlo
 MV $Ehi,$Ectxhi
|| MV $Elo,$Ectxlo
|| MV $Fhi,$Fctxhi
|| MV $Flo,$Fctxlo
|| MV $Ghi,$Gctxhi
|| MV $Glo,$Gctxlo
```

```
|| MVD $Hhi,$Hctxhi
|| MVD $Hlo,$Hctxlo
loop0_15?:
 .if .BIG_ENDIAN
 MV B11,$T1hi
|| MV B10,$T1lo
 .else
 SWAP4 B10,$T1hi
|| SWAP4 B11,$T1lo
 SWAP2 $T1hi,$T1hi
|| SWAP2 $T1lo,$T1lo
 .endif
loop16_79?:
 STW $T1hi,*$Xihi++[2]
|| STW $T1lo,*$Xilo++[2]   ;
 X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo  ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
 XOR $Fhi,$Ghi,$CHhi
|| XOR $Flo,$Glo,$CHlo
|| ADD KHI,$T1hi,$T1hi
|| ADDU KLO,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += K512[i]
|| SHRU $Elo,14,$t0lo
|| SHL $Elo,32-14,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Ehi,$CHhi,$CHhi
|| AND $Elo,$CHlo,$CHlo
|| ROTL $Ghi,0,$Hhi
|| ROTL $Glo,0,$Hlo    ; h = g
|| SHRU $Ehi,18,$t0hi
|| SHL $Ehi,32-18,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| XOR $Ghi,$CHhi,$CHhi
|| XOR $Glo,$CHlo,$CHlo   ; Ch(e,f,g) = ((f^g)&e)^g
|| ROTL $Fhi,0,$Ghi
|| ROTL $Flo,0,$Glo    ; g = f
|| SHRU $Elo,18,$t0lo
|| SHL $Elo,32-18,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| OR $Ahi,$Bhi,$MAJhi
|| OR $Alo,$Blo,$MAJlo
|| ROTL $Ehi,0,$Fhi
|| ROTL $Elo,0,$Flo    ; f = e
```

```
|| SHRU $Ehi,41-32,$t0lo
|| SHL $Ehi,64-41,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Chi,$MAJhi,$MAJhi
|| AND $Clo,$MAJlo,$MAJlo
|| ROTL $Dhi,0,$Ehi
|| ROTL $Dlo,0,$Elo    ;
 e = d
|| SHRU $Elo,41-32,$t0hi
|| SHL $Elo,64-41,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo   ; Sigma1(e)
|| AND $Ahi,$Bhi,$t1hi
|| AND $Alo,$Blo,$t1lo
|| ROTL $Chi,0,$Dhi
|| ROTL $Clo,0,$Dlo    ; d = c
|| SHRU $Ahi,28,$S0hi
|| SHL $Ahi,32-28,$S0lo
 OR $t1hi,$MAJhi,$MAJhi
|| OR $t1lo,$MAJlo,$MAJlo   ; Maj(a,b,c) = ((a|b)&c)|(a&b)
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Ch(e,f,g)
|| ROTL $Bhi,0,$Chi
|| ROTL $Blo,0,$Clo    ; c = b
|| SHRU $Alo,28,$t0lo
|| SHL $Alo,32-28,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Sigma1(e)
|| ROTL $Ahi,0,$Bhi
|| ROTL $Alo,0,$Blo    ; b = a
|| SHRU $Ahi,34-32,$t0lo
|| SHL $Ahi,64-34,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $MAJhi,$T1hi,$T2hi
|| ADDU $MAJlo,$T1carry:$T1lo,$T2carry:$T2lo ;
 T2 = T1+Maj(a,b,c)
|| SHRU $Alo,34-32,$t0hi
|| SHL $Alo,64-34,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $Ehi,$T1hi,$T1hi
|| ADDU $Elo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += e
|| [B0] BNOP loop0_15?
|| SHRU $Ahi,39-32,$t0lo
```

```
|| SHL $Ahi,64-39,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| [B0] LDNDW *$INP++,B11:B10    ; pre-fetch input
||[!B1] BNOP break?
|| SHRU $Alo,39-32,$t0hi
|| SHL $Alo,64-39,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo   ; Sigma0(a)
|| ADD $T1carry,$T1hi,$Ehi
|| MV $T1lo,$Elo    ; e = T1
||[!B0] LDW *${Xihi}[28],$T1hi
||[!B0] LDW *${Xilo}[28],$T1lo   ; X[i+14]
 ADD $S0hi,$T2hi,$T2hi
|| ADDU $S0lo,$T2carry:$T2lo,$T2carry:$T2lo ; T2 += Sigma0(a)
|| [B1] LDDW *$K512++,$Khi:$Klo   ; pre-fetch K512[i]
 NOP      ; avoid cross-path stall
 ADD $T2carry,$T2hi,$Ahi
|| MV $T2lo,$Alo    ; a = T2
|| [B0] SUB B0,1,B0
;;===== branch to loop00_15? is taken here
 NOP
;;===== branch to break? is taken here
 LDW *${Xihi}[2],$T2hi
|| LDW *${Xilo}[2],$T2lo   ;
 X[i+1]
|| SHRU $T1hi,19,$S1hi
|| SHL $T1hi,32-19,$S1lo
 SHRU $T1lo,19,$t0lo
|| SHL $T1lo,32-19,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,61-32,$t0lo
|| SHL $T1hi,64-61,$t0hi
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,61-32,$t0hi
|| SHL $T1lo,64-61,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,6,$t0hi
|| SHL $T1hi,32-6,$t0lo
 XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,6,$t0lo
|| LDW *${Xihi}[18],$T1hi
|| LDW *${Xilo}[18],$T1lo   ; X[i+9]
 XOR $t0lo,$S1lo,$S1lo   ; sigma1(Xi[i+14])
```

```
|| LDW *${Xihi}[0],$CHhi
|| LDW *${Xilo}[0],$CHlo   ; X[i]
|| SHRU $T2hi,1,$S0hi
|| SHL $T2hi,32-1,$S0lo
 SHRU $T2lo,1,$t0lo
|| SHL $T2lo,32-1,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2hi,8,$t0hi
|| SHL $T2hi,32-8,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2lo,8,$t0lo
|| SHL $T2lo,32-8,$t0hi
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1lo,$T1carry:$T1lo  ;
 T1 = X[i+9]+sigma1()
|| [B1] BNOP loop16_79?
|| SHRU $T2hi,7,$t0hi
|| SHL $T2hi,32-7,$t0lo
 XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += X[i]
|| SHRU $T2lo,7,$t0lo
 XOR $t0lo,$S0lo,$S0lo   ; sigma0(Xi[i+1]

 ADD $S0hi,$T1hi,$T1hi
|| ADDU $S0lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += sigma0()
|| [B1] SUB B1,1,B1
 NOP      ; avoid cross-path stall
 ADD $T1carry,$T1hi,$T1hi
;;===== branch to loop16_79? is taken here

break?:
 ADD $Ahi,$Actxhi,$Ahi  ; accumulate ctx
|| ADDU $Alo,$Actxlo,$Actxlo:$Alo
|| [A0] LDNDW *$INP++,B11:B10   ; pre-fetch input
|| [A0] ADDK -640,$K512   ; rewind pointer to K512
 ADD $Bhi,$Bctxhi,$Bhi
|| ADDU $Blo,$Bctxlo,$Bctxlo:$Blo
|| [A0] LDDW *$K512++,$Khi:$Klo  ; pre-fetch K512[0]
 ADD $Chi,$Cctxhi,$Chi
|| ADDU $Clo,$Cctxlo,$Cctxlo:$Clo
|| ADD $Actxlo,$Ahi,$Ahi
```

```
||[!A0] MV $CTXA,$CTXB
 ADD $Dhi,$Dctxhi,$Dhi
|| ADDU $Dlo,$Dctxlo,$Dctxlo:$Dlo
|| ADD $Bctxlo,$Bhi,$Bhi
||[!A0] STW $Ahi,*${CTXA}[0^.LITTLE_ENDIAN] ;
 save ctx
||[!A0] STW $Alo,*${CTXB}[1^.LITTLE_ENDIAN]
 ADD $Ehi,$Ectxhi,$Ehi
|| ADDU $Elo,$Ectxlo,$Ectxlo:$Elo
|| ADD $Cctxlo,$Chi,$Chi
|| [A0] BNOP outerloop?
||[!A0] STW $Bhi,*${CTXA}[2^.LITTLE_ENDIAN]
||[!A0] STW $Blo,*${CTXB}[3^.LITTLE_ENDIAN]
 ADD $Fhi,$Fctxhi,$Fhi
|| ADDU $Flo,$Fctxlo,$Fctxlo:$Flo
|| ADD $Dctxlo,$Dhi,$Dhi
||[!A0] STW $Chi,*${CTXA}[4^.LITTLE_ENDIAN]
||[!A0] STW $Clo,*${CTXB}[5^.LITTLE_ENDIAN]
 ADD $Ghi,$Gctxhi,$Ghi
|| ADDU $Glo,$Gctxlo,$Gctxlo:$Glo
|| ADD $Ectxlo,$Ehi,$Ehi
||[!A0] STW $Dhi,*${CTXA}[6^.LITTLE_ENDIAN]
||[!A0] STW $Dlo,*${CTXB}[7^.LITTLE_ENDIAN]
 ADD $Hhi,$Hctxhi,$Hhi
|| ADDU $Hlo,$Hctxlo,$Hctxlo:$Hlo
|| ADD $Fctxlo,$Fhi,$Fhi
||[!A0] STW $Ehi,*${CTXA}[8^.LITTLE_ENDIAN]
||[!A0] STW $Elo,*${CTXB}[9^.LITTLE_ENDIAN]
 ADD $Gctxlo,$Ghi,$Ghi
||[!A0] STW $Fhi,*${CTXA}[10^.LITTLE_ENDIAN]
||[!A0] STW $Flo,*${CTXB}[11^.LITTLE_ENDIAN]
 ADD $Hctxlo,$Hhi,$Hhi
||[!A0] STW $Ghi,*${CTXA}[12^.LITTLE_ENDIAN]
||[!A0] STW $Glo,*${CTXB}[13^.LITTLE_ENDIAN]
;;=====
 branch to outerloop? is taken here

 STW $Hhi,*${CTXA}[14^.LITTLE_ENDIAN]
|| STW $Hlo,*${CTXB}[15^.LITTLE_ENDIAN]
|| MVK -40,B0
 ADD FP,B0,SP   ; destroy circular buffer
|| LDDW *FP[-4],A11:A10
 LDDW *SP[2],A13:A12
|| LDDW *FP[-2],B11:B10
 LDDW *SP[4],B13:B12
|| BNOP RA
 LDW *++SP(40),FP   ; restore frame pointer
 MVK 0,B0
```

```
 MVC B0,AMR    ; clear AMR
 NOP 2    ; wait till FP is committed
 .endasmfunc

 .sect ".const:sha_asm"
 .align 128
K512:
 .uword 0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
 .uword 0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0x8189dbbc
 .uword 0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019
 .uword 0x923f82a4,0xaf194f9b, 0xab1c5ed5,0xda6d8118
 .uword 0xd807aa98,0xa3030242, 0x12835b01,0x45706fbe
 .uword 0x243185be,0x4ee4b28c, 0x550c7dc3,0xd5ffb4e2
 .uword 0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696b1
 .uword 0x9bdc06a7,0x25c71235, 0xc19bf174,0xcf692694
 .uword 0xe49b69c1,0x9ef14ad2, 0xefbe4786,0x384f25e3
 .uword 0x0fc19dc6,0x8b8cd5b5,
0x240ca1cc,0x77ac9c65
 .uword 0x2de92c6f,0x592b0275, 0x4a7484aa,0x6ea6e483
 .uword 0x5cb0a9dc,0xbd41fbd4, 0x76f988da,0x831153b5
 .uword 0x983e5152,0xee66dfab, 0xa831c66d,0x2db43210
 .uword 0xb00327c8,0x98fb213f, 0xbf597fc7,0xbeef0ee4
 .uword 0xc6e00bf3,0x3da88fc2, 0xd5a79147,0x930aa725
 .uword 0x06ca6351,0xe003826f, 0x14292967,0x0a0e6e70
 .uword 0x27b70a85,0x46d22ffc, 0x2e1b2138,0x5c26c926
 .uword 0x4d2c6dfc,0x5ac42aed, 0x53380d13,0x9d95b3df
 .uword 0x650a7354,0x8baf63de, 0x766a0abb,0x3c77b2a8
 .uword 0x81c2c92e,0x47edaee6, 0x92722c85,0x1482353b
 .uword 0xa2bfe8a1,0x4cf10364, 0xa81a664b,0xbc423001
 .uword 0xc24b8b70,0xd0f89791, 0xc76c51a3,0x0654be30
 .uword 0xd192e819,0xd6ef5218, 0xd6990624,0x5565a910
 .uword 0xf40e3585,0x5771202a, 0x106aa070,0x32bbd1b8
 .uword 0x19a4c116,0xb8d2d0c8, 0x1e376c08,0x5141ab53
 .uword 0x2748774c,0xdf8eeb99, 0x34b0bcb5,0xe19b48a8
 .uword 0x391c0cb3,0xc5c95a63, 0x4ed8aa4a,0xe3418acb
 .uword 0x5b9cca4f,0x7763e373, 0x682e6ff3,0xd6b2b8a3
 .uword 0x748f82ee,0x5defb2fc,
0x78a5636f,0x43172f60
 .uword 0x84c87814,0xa1f0ab72, 0x8cc70208,0x1a6439ec
 .uword 0x90befffa,0x23631e28, 0xa4506ceb,0xde82bde9
 .uword 0xbef9a3f7,0xb2c67915, 0xc67178f2,0xe372532b
 .uword 0xca273ece,0xea26619c, 0xd186b8c7,0x21c0c207
 .uword 0xeada7dd6,0xcde0eb1e, 0xf57d4f7f,0xee6ed178
 .uword 0x06f067aa,0x72176fba, 0x0a637dc5,0xa2c898a6
 .uword 0x113f9804,0xbef90dae, 0x1b710b35,0x131c471b
 .uword 0x28db77f5,0x23047d84, 0x32caab7b,0x40c72493
 .uword 0x3c9ebe0a,0x15c9bebc, 0x431d67c4,0x9c100d4c
 .uword 0x4cc5d4be,0xcb3e42b6, 0x597f299c,0xfc657e2a
```

```
.uword 0x5fcb6fab,0x3ad6faec, 0x6c44198c,0x4a475817
.cstring "SHA512 block transform for C64x+, CRYPTOGAMS by <appro\@openssl.org>"
.align 4
```

—

```
print $code;
close STDOUT;
```

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* /openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/o_str.h

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```

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```
#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# This module implements support for AES instructions as per PowerISA
# specification version 2.07, first implemented by POWER8 processor.
# The module is endian-agnostic in sense that it supports both big-
# and little-endian cases. Data alignment in parallelizable modes is
# handled with VSX loads and stores, which implies MSR.VSX flag being
# set. It should also be noted that ISA specification doesn't prohibit
# alignment exceptions for these instructions on page boundaries.
# Initially alignment was
 handled in pure AltiVec/VMX way [when data
# is aligned programmatically, which in turn guarantees exception-
# free execution], but it turned to hamper performance when vcipher
# instructions are interleaved. It's reckoned that eventual
# misalignment penalties at page boundaries are in average lower
# than additional overhead in pure AltiVec approach.
#
# May 2016
#
# Add XTS subroutine, 9x on little- and 12x improvement on big-endian
# systems were measured.
```

```
#
######################################################################
# Current large-block performance in cycles per byte processed with
# 128-bit key (less is better).
#
#  CBC en-/decrypt CTR XTS
# POWER8[le] 3.96/0.72 0.74 1.1
# POWER8[be] 3.75/0.65 0.66 1.0

$flavour = shift;

if ($flavour =~ /64/) {
 $SIZE_T =8;
 $LRSAVE =2*$SIZE_T;
 $STU ="stdu";
 $POP ="ld";
 $PUSH ="std";
 $UCMP ="cmpld";
 $SHL ="sldi";
} elsif ($flavour =~ /32/) {
 $SIZE_T =4;
 $LRSAVE =$SIZE_T;
 $STU ="stwu";
 $POP ="lwz";
 $PUSH ="stw";
 $UCMP ="cmplw";
 $SHL ="slwi";
}
 else { die "nonsense $flavour"; }

$LITTLE_ENDIAN = ($flavour=~/le$/) ? $SIZE_T : 0;

$0 =~ m/(.*[\/\\])[^\/\\]+$/; $dir=$1;
( $xlate="${dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="${dir}../../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| $^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=8*$SIZE_T;
$prefix="aes_p8";

$sp="r1";
$vrsave="r12";

#########################################################################
{{{ # Key setup procedures      #
my ($inp,$bits,$out,$ptr,$cnt,$rounds)=map("r$_",(3..8));
```

```
my ($zero,$in0,$in1,$key,$rcon,$mask,$tmp)=map("v$_",(0..6));
my ($stage,$outperm,$outmask,$outhead,$outtail)=map("v$_",(7..11));

$code.=<<___;
.machine "any"

.text

.align 7
rcon:
.long 0x01000000, 0x01000000, 0x01000000, 0x01000000 ?rev
.long 0x1b000000, 0x1b000000, 0x1b000000, 0x1b000000 ?rev
.long 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c ?rev
.long 0,0,0,0       ?asis
Lconsts:
 mflr r0
 bcl 20,31,\$+4
 mflr $ptr
 #vvvvv "distance between . and rcon
 addi $ptr,$ptr,-0x48
 mtlr r0
 blr
 .long 0
 .byte 0,12,0x14,0,0,0,0,0
.asciz "AES for PowerISA 2.07, CRYPTOGAMS by <appro\@openssl.org>"

.globl .${prefix}_set_encrypt_key
.align 5
.${prefix}_set_encrypt_key:
Lset_encrypt_key:
 mflr  r11
 $PUSH  r11,$LRSAVE($sp)

 li  $ptr,-1
 ${UCMP}i $inp,0
 beq-  Lenc_key_abort  # if ($inp==0) return -1;
 ${UCMP}i $out,0
 beq-  Lenc_key_abort  # if ($out==0) return -1;
 li  $ptr,-2
 cmpwi  $bits,128
 blt-  Lenc_key_abort
 cmpwi  $bits,256
 bgt-  Lenc_key_abort
 andi.  r0,$bits,0x3f
 bne-  Lenc_key_abort

 lis  r0,0xfff0
 mfspr  $vrsave,256
```

```
 mtspr  256,r0

 bl  Lconsts
 mtlr  r11

 neg  r9,$inp
 lvx  $in0,0,$inp
 addi  $inp,$inp,15  # 15 is not typo
 lvsr  $key,0,r9  # borrow $key
 li  r8,0x20
 cmpwi  $bits,192
 lvx  $in1,0,$inp
 le?vspltisb $mask,0x0f  # borrow $mask
 lvx  $rcon,0,$ptr
 le?vxor  $key,$key,$mask  # adjust for byte swap
 lvx  $mask,r8,$ptr
 addi  $ptr,$ptr,0x10
 vperm  $in0,$in0,$in1,$key #
 align [and byte swap in LE]
 li  $cnt,8
 vxor  $zero,$zero,$zero
 mtctr  $cnt

 ?lvsr  $outperm,0,$out
 vspltisb $outmask,-1
 lvx  $outhead,0,$out
 ?vperm  $outmask,$zero,$outmask,$outperm

 blt  Loop128
 addi  $inp,$inp,8
 beq  L192
 addi  $inp,$inp,8
 b  L256

.align 4
Loop128:
 vperm  $key,$in0,$in0,$mask # rotate-n-splat
 vsldoi  $tmp,$zero,$in0,12 # >>32
  vperm  $outtail,$in0,$in0,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
 vcipherlast $key,$key,$rcon
  stvx  $stage,0,$out
  addi  $out,$out,16

 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
```

```
vsldoi  $tmp,$zero,$tmp,12 # >>32
vxor  $in0,$in0,$tmp
 vadduwm $rcon,$rcon,$rcon
vxor  $in0,$in0,$key
bdnz  Loop128

lvx  $rcon,0,$ptr  # last two round keys

vperm  $key,$in0,$in0,$mask # rotate-n-splat
vsldoi  $tmp,$zero,$in0,12 # >>32
 vperm  $outtail,$in0,$in0,$outperm # rotate
 vsel  $stage,$outhead,$outtail,$outmask
 vmr  $outhead,$outtail
vcipherlast $key,$key,$rcon

stvx  $stage,0,$out
 addi  $out,$out,16

vxor  $in0,$in0,$tmp
vsldoi  $tmp,$zero,$tmp,12 # >>32
vxor  $in0,$in0,$tmp
vsldoi  $tmp,$zero,$tmp,12 # >>32
vxor  $in0,$in0,$tmp
 vadduwm $rcon,$rcon,$rcon
vxor  $in0,$in0,$key

vperm  $key,$in0,$in0,$mask # rotate-n-splat
vsldoi  $tmp,$zero,$in0,12 # >>32
 vperm  $outtail,$in0,$in0,$outperm # rotate
 vsel  $stage,$outhead,$outtail,$outmask
 vmr  $outhead,$outtail
vcipherlast $key,$key,$rcon
 stvx  $stage,0,$out
 addi  $out,$out,16

vxor  $in0,$in0,$tmp
vsldoi  $tmp,$zero,$tmp,12 # >>32
vxor  $in0,$in0,$tmp
vsldoi  $tmp,$zero,$tmp,12 # >>32
vxor  $in0,$in0,$tmp
vxor  $in0,$in0,$key
 vperm  $outtail,$in0,$in0,$outperm # rotate
 vsel  $stage,$outhead,$outtail,$outmask
 vmr  $outhead,$outtail
 stvx  $stage,0,$out

addi  $inp,$out,15  # 15 is not typo
addi  $out,$out,0x50
```

```
 li  $rounds,10
 b  Ldone

.align 4
L192:
 lvx  $tmp,0,$inp
 li  $cnt,4
  vperm  $outtail,$in0,$in0,$outperm #
 rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
  stvx  $stage,0,$out
  addi  $out,$out,16
 vperm  $in1,$in1,$tmp,$key # align [and byte swap in LE]
 vspltisb $key,8   # borrow $key
 mtctr  $cnt
 vsububm  $mask,$mask,$key # adjust the mask

Loop192:
 vperm  $key,$in1,$in1,$mask # roate-n-splat
 vsldoi  $tmp,$zero,$in0,12 # >>32
 vcipherlast $key,$key,$rcon

 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp

  vsldoi  $stage,$zero,$in1,8
 vspltw  $tmp,$in0,3
 vxor  $tmp,$tmp,$in1
 vsldoi  $in1,$zero,$in1,12 # >>32
  vadduwm $rcon,$rcon,$rcon
 vxor  $in1,$in1,$tmp
 vxor  $in0,$in0,$key
 vxor  $in1,$in1,$key
  vsldoi  $stage,$stage,$in0,8

 vperm  $key,$in1,$in1,$mask # rotate-n-splat
 vsldoi  $tmp,$zero,$in0,12 # >>32
  vperm  $outtail,$stage,$stage,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
 vcipherlast $key,$key,$rcon
  stvx  $stage,0,$out
```

```
 addi  $out,$out,16

  vsldoi  $stage,$in0,$in1,8
 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
  vperm  $outtail,$stage,$stage,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
  stvx  $stage,0,$out
  addi  $out,$out,16

 vspltw  $tmp,$in0,3
 vxor  $tmp,$tmp,$in1
 vsldoi  $in1,$zero,$in1,12 # >>32
  vadduwm $rcon,$rcon,$rcon
 vxor  $in1,$in1,$tmp
 vxor  $in0,$in0,$key
 vxor  $in1,$in1,$key
  vperm  $outtail,$in0,$in0,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
  stvx  $stage,0,$out
  addi  $inp,$out,15  # 15 is not typo
  addi  $out,$out,16
 bdnz  Loop192

 li  $rounds,12
 addi  $out,$out,0x20
 b  Ldone

.align 4
L256:
 lvx  $tmp,0,$inp
 li  $cnt,7
 li  $rounds,14
  vperm  $outtail,$in0,$in0,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
  stvx  $stage,0,$out
  addi  $out,$out,16
 vperm  $in1,$in1,$tmp,$key #
 align [and byte swap in LE]
 mtctr  $cnt

Loop256:
```

```
 vperm  $key,$in1,$in1,$mask # rotate-n-splat
 vsldoi  $tmp,$zero,$in0,12 # >>32
  vperm  $outtail,$in1,$in1,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
 vcipherlast $key,$key,$rcon
  stvx  $stage,0,$out
  addi  $out,$out,16

 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in0,$in0,$tmp
  vadduwm $rcon,$rcon,$rcon
 vxor  $in0,$in0,$key
  vperm  $outtail,$in0,$in0,$outperm # rotate
  vsel  $stage,$outhead,$outtail,$outmask
  vmr  $outhead,$outtail
  stvx  $stage,0,$out
  addi  $inp,$out,15  # 15 is not typo
  addi  $out,$out,16
 bdz  Ldone

 vspltw  $key,$in0,3  # just splat
 vsldoi  $tmp,$zero,$in1,12 # >>32
 vsbox  $key,$key

 vxor  $in1,$in1,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in1,$in1,$tmp
 vsldoi  $tmp,$zero,$tmp,12 # >>32
 vxor  $in1,$in1,$tmp

 vxor  $in1,$in1,$key
 b  Loop256

.align 4
Ldone:
 lvx  $in1,0,$inp  #
 redundant in aligned case
 vsel  $in1,$outhead,$in1,$outmask
 stvx  $in1,0,$inp
 li  $ptr,0
 mtspr  256,$vrsave
 stw  $rounds,0($out)

Lenc_key_abort:
```

```
 mr  r3,$ptr
 blr
 .long  0
 .byte  0,12,0x14,1,0,0,3,0
 .long  0
.size .${prefix}_set_encrypt_key,.-.${prefix}_set_encrypt_key

.globl .${prefix}_set_decrypt_key
.align 5
.${prefix}_set_decrypt_key:
 $STU  $sp,-$FRAME($sp)
 mflr  r10
 $PUSH  r10,$FRAME+$LRSAVE($sp)
 bl  Lset_encrypt_key
 mtlr  r10

 cmpwi  r3,0
 bne-  Ldec_key_abort

 slwi  $cnt,$rounds,4
 subi  $inp,$out,240  # first round key
 srwi  $rounds,$rounds,1
 add  $out,$inp,$cnt  # last round key
 mtctr  $rounds

Ldeckey:
 lwz  r0, 0($inp)
 lwz  r6, 4($inp)
 lwz  r7, 8($inp)
 lwz  r8, 12($inp)
 addi  $inp,$inp,16
 lwz  r9, 0($out)
 lwz  r10,4($out)
 lwz  r11,8($out)
 lwz  r12,12($out)
 stw  r0, 0($out)
 stw  r6, 4($out)
 stw  r7, 8($out)
 stw  r8, 12($out)
 subi  $out,$out,16
 stw  r9, -16($inp)
 stw  r10,-12($inp)
 stw  r11,-8($inp)
 stw  r12,-4($inp)
 bdnz  Ldeckey

 xor  r3,r3,r3  #
```

```
 return value
Ldec_key_abort:
 addi  $sp,$sp,$FRAME
 blr
 .long  0
 .byte  0,12,4,1,0x80,0,3,0
 .long  0
.size .${prefix}_set_decrypt_key,.-.${prefix}_set_decrypt_key
___
}}}
########################################################################
{{{ # Single block en- and decrypt procedures   #
sub gen_block () {
my $dir = shift;
my $n   = $dir eq "de" ? "n" : "";
my ($inp,$out,$key,$rounds,$idx)=map("r$_",(3..7));

$code.=<<___;
.globl .${prefix}_${dir}crypt
.align 5
.${prefix}_${dir}crypt:
 lwz  $rounds,240($key)
 lis  r0,0xfc00
 mfspr  $vrsave,256
 li  $idx,15   # 15 is not typo
 mtspr  256,r0

 lvx  v0,0,$inp
 neg  r11,$out
 lvx  v1,$idx,$inp
 lvsl  v2,0,$inp  # inpperm
 le?vspltisb v4,0x0f
 ?lvsl  v3,0,r11  # outperm
 le?vxor  v2,v2,v4
 li  $idx,16
 vperm  v0,v0,v1,v2  # align [and byte swap in LE]
 lvx  v1,0,$key
 ?lvsl  v5,0,$key  # keyperm
 srwi  $rounds,$rounds,1
 lvx  v2,$idx,$key
 addi  $idx,$idx,16
 subi  $rounds,$rounds,1
 ?vperm  v1,v1,v2,v5  #
 align round key

 vxor  v0,v0,v1
 lvx  v1,$idx,$key
 addi  $idx,$idx,16
```

```
 mtctr  $rounds

Loop_${dir}c:
 ?vperm  v2,v2,v1,v5
 v${n}cipher v0,v0,v2
 lvx  v2,$idx,$key
 addi  $idx,$idx,16
 ?vperm  v1,v1,v2,v5
 v${n}cipher v0,v0,v1
 lvx  v1,$idx,$key
 addi  $idx,$idx,16
 bdnz  Loop_${dir}c

 ?vperm  v2,v2,v1,v5
 v${n}cipher v0,v0,v2
 lvx  v2,$idx,$key
 ?vperm  v1,v1,v2,v5
 v${n}cipherlast v0,v0,v1

 vspltisb v2,-1
 vxor  v1,v1,v1
 li  $idx,15   # 15 is not typo
 ?vperm  v2,v1,v2,v3  # outmask
 le?vxor  v3,v3,v4
 lvx  v1,0,$out  # outhead
 vperm  v0,v0,v0,v3  # rotate [and byte swap in LE]
 vsel  v1,v1,v0,v2
 lvx  v4,$idx,$out
 stvx  v1,0,$out
 vsel  v0,v0,v4,v2
 stvx  v0,$idx,$out

 mtspr  256,$vrsave
 blr
 .long  0
 .byte  0,12,0x14,0,0,0,3,0
 .long  0
.size .${prefix}_${dir}crypt,.-.${prefix}_${dir}crypt
___
}
&gen_block("en");
&gen_block("de");
}}}
######################################################################
{{{ # CBC en- and decrypt procedures    #
my
 ($inp,$out,$len,$key,$ivp,$enc,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)=  map("v$_",(0..3));
```

```
my ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm)=
    map("v$_",(4..10));
$code.=<<___;
.globl .${prefix}_cbc_encrypt
.align 5
.${prefix}_cbc_encrypt:
 ${UCMP}i $len,16
 bltlr-

 cmpwi  $enc,0   # test direction
 lis  r0,0xffe0
 mfspr  $vrsave,256
 mtspr  256,r0

 li  $idx,15
 vxor  $rndkey0,$rndkey0,$rndkey0
 le?vspltisb $tmp,0x0f

 lvx  $ivec,0,$ivp  # load [unaligned] iv
 lvsl  $inpperm,0,$ivp
 lvx  $inptail,$idx,$ivp
 le?vxor  $inpperm,$inpperm,$tmp
 vperm  $ivec,$ivec,$inptail,$inpperm

 neg  r11,$inp
 ?lvsl  $keyperm,0,$key  # prepare for unaligned key
 lwz  $rounds,240($key)

 lvsr  $inpperm,0,r11  # prepare for unaligned load
 lvx  $inptail,0,$inp
 addi  $inp,$inp,15  # 15 is not typo
 le?vxor  $inpperm,$inpperm,$tmp

 ?lvsr  $outperm,0,$out  # prepare for unaligned store
 vspltisb $outmask,-1
 lvx  $outhead,0,$out
 ?vperm  $outmask,$rndkey0,$outmask,$outperm
 le?vxor  $outperm,$outperm,$tmp

 srwi  $rounds,$rounds,1
 li  $idx,16
 subi  $rounds,$rounds,1
 beq  Lcbc_dec

Lcbc_enc:
 vmr  $inout,$inptail
 lvx  $inptail,0,$inp
 addi  $inp,$inp,16
```

```
 mtctr  $rounds
 subi  $len,$len,16  #
 len-=16

 lvx  $rndkey0,0,$key
  vperm  $inout,$inout,$inptail,$inpperm
 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key
 addi  $idx,$idx,16
 vxor  $inout,$inout,$ivec

Loop_cbc_enc:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipher  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key
 addi  $idx,$idx,16
 bdnz  Loop_cbc_enc

 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key
 li  $idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipherlast $ivec,$inout,$rndkey0
 ${UCMP}i $len,16

 vperm  $tmp,$ivec,$ivec,$outperm
 vsel  $inout,$outhead,$tmp,$outmask
 vmr  $outhead,$tmp
 stvx  $inout,0,$out
 addi  $out,$out,16
 bge  Lcbc_enc

 b  Lcbc_done

.align 4
Lcbc_dec:
 ${UCMP}i $len,128
 bge  _aesp8_cbc_decrypt8x
 vmr  $tmp,$inptail
 lvx  $inptail,0,$inp
```

```
 addi  $inp,$inp,16
 mtctr  $rounds
 subi  $len,$len,16  #
 len-=16

 lvx  $rndkey0,0,$key
  vperm  $tmp,$tmp,$inptail,$inpperm
 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$tmp,$rndkey0
 lvx  $rndkey0,$idx,$key
 addi  $idx,$idx,16

Loop_cbc_dec:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vncipher $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vncipher $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key
 addi  $idx,$idx,16
 bdnz  Loop_cbc_dec

 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vncipher $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key
 li  $idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vncipherlast $inout,$inout,$rndkey0
 ${UCMP}i $len,16

 vxor  $inout,$inout,$ivec
 vmr  $ivec,$tmp
 vperm  $tmp,$inout,$inout,$outperm
 vsel  $inout,$outhead,$tmp,$outmask
 vmr  $outhead,$tmp
 stvx  $inout,0,$out
 addi  $out,$out,16
 bge  Lcbc_dec

Lcbc_done:
 addi  $out,$out,-1
 lvx  $inout,0,$out  #
 redundant in aligned case
 vsel  $inout,$outhead,$inout,$outmask
 stvx  $inout,0,$out
```

```
 neg  $enc,$ivp  # write [unaligned] iv
 li  $idx,15   # 15 is not typo
 vxor  $rndkey0,$rndkey0,$rndkey0
 vspltisb $outmask,-1
 le?vspltisb $tmp,0x0f
 ?lvsl  $outperm,0,$enc
 ?vperm  $outmask,$rndkey0,$outmask,$outperm
 le?vxor  $outperm,$outperm,$tmp
 lvx  $outhead,0,$ivp
 vperm  $ivec,$ivec,$ivec,$outperm
 vsel  $inout,$outhead,$ivec,$outmask
 lvx  $inptail,$idx,$ivp
 stvx  $inout,0,$ivp
 vsel  $inout,$ivec,$inptail,$outmask
 stvx  $inout,$idx,$ivp

 mtspr  256,$vrsave
 blr
 .long  0
 .byte  0,12,0x14,0,0,0,6,0
 .long  0
___
#############################################################################
{{ #
 Optimized CBC decrypt procedure    #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
   $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10..13));
my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(14..21));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
   # v26-v31 last 6 round keys
my ($tmp,$keyperm)=($in3,$in4); # aliases with "caller", redundant assignment

$code.=<<___;
.align 5
_aesp8_cbc_decrypt8x:
 $STU  $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
 li  r10,`$FRAME+8*16+15`
 li  r11,`$FRAME+8*16+31`
 stvx  v20,r10,$sp  # ABI says so
 addi  r10,r10,32
 stvx  v21,r11,$sp
 addi  r11,r11,32
 stvx  v22,r10,$sp
 addi  r10,r10,32
 stvx  v23,r11,$sp
```

```
 addi  r11,r11,32
 stvx  v24,r10,$sp
 addi  r10,r10,32
 stvx  v25,r11,$sp
 addi  r11,r11,32
 stvx  v26,r10,$sp
 addi  r10,r10,32
 stvx  v27,r11,$sp
 addi  r11,r11,32
 stvx  v28,r10,$sp
 addi  r10,r10,32
 stvx  v29,r11,$sp
 addi  r11,r11,32
 stvx  v30,r10,$sp
 stvx  v31,r11,$sp
 li  r0,-1
 stw  $vrsave,`$FRAME+21*16-4`($sp) #
 save vrsave
 li  $x10,0x10
 $PUSH  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 li  $x20,0x20
 $PUSH  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 li  $x30,0x30
 $PUSH  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 li  $x40,0x40
 $PUSH  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 li  $x50,0x50
 $PUSH  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 li  $x60,0x60
 $PUSH  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 li  $x70,0x70
 mtspr  256,r0

 subi  $rounds,$rounds,3 # -4 in total
 subi  $len,$len,128  # bias

 lvx  $rndkey0,$x00,$key # load key schedule
 lvx  v30,$x10,$key
 addi  $key,$key,0x20
 lvx  v31,$x00,$key
 ?vperm  $rndkey0,$rndkey0,v30,$keyperm
 addi  $key_,$sp,$FRAME+15
 mtctr  $rounds

Load_cbc_dec_key:
 ?vperm  v24,v30,v31,$keyperm
 lvx  v30,$x10,$key
 addi  $key,$key,0x20
```

```
stvx  v24,$x00,$key_  # off-load round[1]
?vperm  v25,v31,v30,$keyperm
lvx  v31,$x00,$key
stvx  v25,$x10,$key_  # off-load round[2]
addi  $key_,$key_,0x20
bdnz  Load_cbc_dec_key

lvx  v26,$x10,$key
?vperm  v24,v30,v31,$keyperm
lvx  v27,$x20,$key
stvx  v24,$x00,$key_  #
off-load round[3]
?vperm  v25,v31,v26,$keyperm
lvx  v28,$x30,$key
stvx  v25,$x10,$key_  # off-load round[4]
addi  $key_,$sp,$FRAME+15 # rewind $key_
?vperm  v26,v26,v27,$keyperm
lvx  v29,$x40,$key
?vperm  v27,v27,v28,$keyperm
lvx  v30,$x50,$key
?vperm  v28,v28,v29,$keyperm
lvx  v31,$x60,$key
?vperm  v29,v29,v30,$keyperm
lvx  $out0,$x70,$key  # borrow $out0
?vperm  v30,v30,v31,$keyperm
lvx  v24,$x00,$key_  # pre-load round[1]
?vperm  v31,v31,$out0,$keyperm
lvx  v25,$x10,$key_  # pre-load round[2]

#lvx  $inptail,0,$inp  # "caller" already did this
#addi  $inp,$inp,15  # 15 is not typo
subi  $inp,$inp,15  # undo "caller"

 le?li  $idx,8
lvx_u  $in0,$x00,$inp  # load first 8 "words"
 le?lvsl $inpperm,0,$idx
 le?vspltisb $tmp,0x0f
lvx_u  $in1,$x10,$inp
 le?vxor $inpperm,$inpperm,$tmp # transform for lvx_u/stvx_u
lvx_u  $in2,$x20,$inp

le?vperm $in0,$in0,$in0,$inpperm
lvx_u  $in3,$x30,$inp
 le?vperm $in1,$in1,$in1,$inpperm
lvx_u  $in4,$x40,$inp
 le?vperm $in2,$in2,$in2,$inpperm
vxor  $out0,$in0,$rndkey0
lvx_u  $in5,$x50,$inp
```

```
 le?vperm $in3,$in3,$in3,$inpperm
 vxor  $out1,$in1,$rndkey0
 lvx_u  $in6,$x60,$inp
 le?vperm $in4,$in4,$in4,$inpperm
 vxor  $out2,$in2,$rndkey0
 lvx_u  $in7,$x70,$inp
 addi  $inp,$inp,0x80
 le?vperm $in5,$in5,$in5,$inpperm
 vxor  $out3,$in3,$rndkey0
 le?vperm $in6,$in6,$in6,$inpperm
 vxor  $out4,$in4,$rndkey0
 le?vperm $in7,$in7,$in7,$inpperm
 vxor  $out5,$in5,$rndkey0
 vxor  $out6,$in6,$rndkey0
 vxor  $out7,$in7,$rndkey0

 mtctr  $rounds
 b  Loop_cbc_dec8x
.align 5
Loop_cbc_dec8x:
 vncipher $out0,$out0,v24
 vncipher $out1,$out1,v24
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
 vncipher $out4,$out4,v24
 vncipher $out5,$out5,v24
 vncipher $out6,$out6,v24
 vncipher $out7,$out7,v24
 lvx  v24,$x20,$key_  # round[3]
 addi  $key_,$key_,0x20

 vncipher $out0,$out0,v25
 vncipher $out1,$out1,v25
 vncipher $out2,$out2,v25
 vncipher $out3,$out3,v25
 vncipher $out4,$out4,v25
 vncipher $out5,$out5,v25
 vncipher $out6,$out6,v25
 vncipher $out7,$out7,v25
 lvx  v25,$x10,$key_  #
 round[4]
 bdnz  Loop_cbc_dec8x

 subic  $len,$len,128  # $len-=128
 vncipher $out0,$out0,v24
 vncipher $out1,$out1,v24
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
```

```
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24

subfe.  r0,r0,r0  # borrow?-1:0
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25

and  r0,r0,$len
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26
vncipher $out6,$out6,v26
vncipher $out7,$out7,v26

add  $inp,$inp,r0  # $inp is adjusted in such
    # way
that at exit from the
    # loop inX-in7 are loaded
    # with last "words"
vncipher $out0,$out0,v27
vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27
vncipher $out6,$out6,v27
vncipher $out7,$out7,v27

addi  $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
vncipher $out6,$out6,v28
vncipher $out7,$out7,v28
```

```
lvx  v24,$x00,$key_  # re-pre-load round[1]

vncipher $out0,$out0,v29
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
vncipher $out6,$out6,v29
vncipher $out7,$out7,v29
lvx  v25,$x10,$key_  # re-pre-load round[2]

vncipher $out0,$out0,v30
 vxor  $ivec,$ivec,v31  # xor with last round key
vncipher $out1,$out1,v30
 vxor  $in0,$in0,v31
vncipher $out2,$out2,v30
 vxor  $in1,$in1,v31
vncipher $out3,$out3,v30

vxor  $in2,$in2,v31
vncipher $out4,$out4,v30
 vxor  $in3,$in3,v31
vncipher $out5,$out5,v30
 vxor  $in4,$in4,v31
vncipher $out6,$out6,v30
 vxor  $in5,$in5,v31
vncipher $out7,$out7,v30
 vxor  $in6,$in6,v31

vncipherlast $out0,$out0,$ivec
vncipherlast $out1,$out1,$in0
 lvx_u  $in0,$x00,$inp  # load next input block
vncipherlast $out2,$out2,$in1
 lvx_u  $in1,$x10,$inp
vncipherlast $out3,$out3,$in2
 le?vperm $in0,$in0,$in0,$inpperm
 lvx_u  $in2,$x20,$inp
vncipherlast $out4,$out4,$in3
 le?vperm $in1,$in1,$in1,$inpperm
 lvx_u  $in3,$x30,$inp
vncipherlast $out5,$out5,$in4
 le?vperm $in2,$in2,$in2,$inpperm
 lvx_u  $in4,$x40,$inp
vncipherlast $out6,$out6,$in5
 le?vperm $in3,$in3,$in3,$inpperm
 lvx_u  $in5,$x50,$inp
vncipherlast $out7,$out7,$in6
```

```
 le?vperm $in4,$in4,$in4,$inpperm
 lvx_u  $in6,$x60,$inp
vmr  $ivec,$in7
 le?vperm $in5,$in5,$in5,$inpperm
 lvx_u  $in7,$x70,$inp
 addi  $inp,$inp,0x80

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u  $out0,$x00,$out

le?vperm $in6,$in6,$in6,$inpperm
 vxor  $out0,$in0,$rndkey0
le?vperm $out2,$out2,$out2,$inpperm
stvx_u  $out1,$x10,$out
 le?vperm $in7,$in7,$in7,$inpperm
 vxor  $out1,$in1,$rndkey0
le?vperm $out3,$out3,$out3,$inpperm
stvx_u  $out2,$x20,$out
 vxor  $out2,$in2,$rndkey0
le?vperm $out4,$out4,$out4,$inpperm
stvx_u  $out3,$x30,$out
 vxor  $out3,$in3,$rndkey0
le?vperm $out5,$out5,$out5,$inpperm
stvx_u  $out4,$x40,$out
 vxor  $out4,$in4,$rndkey0
le?vperm $out6,$out6,$out6,$inpperm
stvx_u  $out5,$x50,$out
 vxor  $out5,$in5,$rndkey0
le?vperm $out7,$out7,$out7,$inpperm
stvx_u  $out6,$x60,$out
 vxor  $out6,$in6,$rndkey0
stvx_u  $out7,$x70,$out
addi  $out,$out,0x80
 vxor  $out7,$in7,$rndkey0

mtctr  $rounds
beq  Loop_cbc_dec8x  # did $len-=128 borrow?

addic.  $len,$len,128
beq  Lcbc_dec8x_done
nop
nop

Loop_cbc_dec8x_tail:    # up to 7 "words" tail...
 vncipher $out1,$out1,v24
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
```

```
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24
lvx  v24,$x20,$key_  #
round[3]
addi  $key_,$key_,0x20

vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25
lvx  v25,$x10,$key_  # round[4]
bdnz  Loop_cbc_dec8x_tail

vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24

vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25

vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26
vncipher $out6,$out6,v26
vncipher $out7,$out7,v26

vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27
vncipher $out6,$out6,v27
```

```
 vncipher $out7,$out7,v27

 vncipher $out1,$out1,v28
 vncipher $out2,$out2,v28
 vncipher $out3,$out3,v28
 vncipher $out4,$out4,v28
 vncipher $out5,$out5,v28
 vncipher $out6,$out6,v28
 vncipher $out7,$out7,v28

 vncipher $out1,$out1,v29
 vncipher $out2,$out2,v29
 vncipher $out3,$out3,v29
 vncipher $out4,$out4,v29
 vncipher $out5,$out5,v29
 vncipher $out6,$out6,v29
 vncipher $out7,$out7,v29

 vncipher $out1,$out1,v30

 vxor  $ivec,$ivec,v31  # last round key
 vncipher $out2,$out2,v30
  vxor  $in1,$in1,v31
 vncipher $out3,$out3,v30
  vxor  $in2,$in2,v31
 vncipher $out4,$out4,v30
  vxor  $in3,$in3,v31
 vncipher $out5,$out5,v30
  vxor  $in4,$in4,v31
 vncipher $out6,$out6,v30
  vxor  $in5,$in5,v31
 vncipher $out7,$out7,v30
  vxor  $in6,$in6,v31

 cmplwi  $len,32   # switch($len)
 blt  Lcbc_dec8x_one
 nop
 beq  Lcbc_dec8x_two
 cmplwi  $len,64
 blt  Lcbc_dec8x_three
 nop
 beq  Lcbc_dec8x_four
 cmplwi  $len,96
 blt  Lcbc_dec8x_five
 nop
 beq  Lcbc_dec8x_six

Lcbc_dec8x_seven:
```

```
 vncipherlast $out1,$out1,$ivec
 vncipherlast $out2,$out2,$in1
 vncipherlast $out3,$out3,$in2
 vncipherlast $out4,$out4,$in3
 vncipherlast $out5,$out5,$in4
 vncipherlast $out6,$out6,$in5
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out1,$out1,$out1,$inpperm
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x00,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x10,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x20,$out
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x30,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x40,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x50,$out
 stvx_u  $out7,$x60,$out
 addi  $out,$out,0x70
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_six:
 vncipherlast $out2,$out2,$ivec
 vncipherlast $out3,$out3,$in2
 vncipherlast $out4,$out4,$in3
 vncipherlast $out5,$out5,$in4
 vncipherlast $out6,$out6,$in5
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out2,$out2,$out2,$inpperm
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x00,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x10,$out
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x20,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x30,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x40,$out
 stvx_u  $out7,$x50,$out
```

```
 addi  $out,$out,0x60
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_five:
 vncipherlast $out3,$out3,$ivec
 vncipherlast $out4,$out4,$in3
 vncipherlast $out5,$out5,$in4
 vncipherlast $out6,$out6,$in5
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out3,$out3,$out3,$inpperm
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x00,$out
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x10,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x20,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x30,$out
 stvx_u  $out7,$x40,$out
 addi  $out,$out,0x50
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_four:
 vncipherlast $out4,$out4,$ivec
 vncipherlast $out5,$out5,$in4
 vncipherlast $out6,$out6,$in5
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out4,$out4,$out4,$inpperm
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x00,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x10,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x20,$out
 stvx_u  $out7,$x30,$out
 addi  $out,$out,0x40
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_three:
 vncipherlast $out5,$out5,$ivec
 vncipherlast $out6,$out6,$in5
```

```
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out5,$out5,$out5,$inpperm
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x00,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x10,$out
 stvx_u  $out7,$x20,$out
 addi  $out,$out,0x30
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_two:
 vncipherlast $out6,$out6,$ivec
 vncipherlast $out7,$out7,$in6
 vmr  $ivec,$in7

 le?vperm $out6,$out6,$out6,$inpperm
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x00,$out
 stvx_u  $out7,$x10,$out
 addi  $out,$out,0x20
 b  Lcbc_dec8x_done

.align 5
Lcbc_dec8x_one:
 vncipherlast $out7,$out7,$ivec
 vmr  $ivec,$in7

 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out7,0,$out
 addi  $out,$out,0x10

Lcbc_dec8x_done:
 le?vperm $ivec,$ivec,$ivec,$inpperm
 stvx_u  $ivec,0,$ivp  #
 write [unaligned] iv

 li  r10,`$FRAME+15`
 li  r11,`$FRAME+31`
 stvx  $inpperm,r10,$sp # wipe copies of round keys
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32
 stvx  $inpperm,r10,$sp
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
```

```
addi  r11,r11,32
stvx  $inpperm,r10,$sp
addi  r10,r10,32
stvx  $inpperm,r11,$sp
addi  r11,r11,32
stvx  $inpperm,r10,$sp
addi  r10,r10,32
stvx  $inpperm,r11,$sp
addi  r11,r11,32

mtspr  256,$vrsave
lvx  v20,r10,$sp  # ABI says so
addi  r10,r10,32
lvx  v21,r11,$sp
addi  r11,r11,32
lvx  v22,r10,$sp
addi  r10,r10,32
lvx  v23,r11,$sp
addi  r11,r11,32
lvx  v24,r10,$sp
addi  r10,r10,32
lvx  v25,r11,$sp
addi  r11,r11,32
lvx  v26,r10,$sp
addi  r10,r10,32
lvx  v27,r11,$sp
addi  r11,r11,32
lvx  v28,r10,$sp
addi  r10,r10,32
lvx  v29,r11,$sp
addi  r11,r11,32
lvx  v30,r10,$sp
lvx  v31,r11,$sp
$POP  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi  $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long  0
.byte  0,12,0x04,0,0x80,6,6,0
.long  0
.size .${prefix}_cbc_encrypt,.-.${prefix}_cbc_encrypt

___
}} }}}
```

```
######################################################################
{{{ #
 CTR procedure[s]      #
my ($inp,$out,$len,$key,$ivp,$x10,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)=  map("v$_",(0..3));
my ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm,$one)=
     map("v$_",(4..11));
my $dat=$tmp;

$code.=<<___;
.globl .${prefix}_ctr32_encrypt_blocks
.align 5
.${prefix}_ctr32_encrypt_blocks:
 ${UCMP}i $len,1
 bltlr-

 lis  r0,0xfff0
 mfspr  $vrsave,256
 mtspr  256,r0

 li  $idx,15
 vxor  $rndkey0,$rndkey0,$rndkey0
 le?vspltisb $tmp,0x0f

 lvx  $ivec,0,$ivp  #
 load [unaligned] iv
 lvsl  $inpperm,0,$ivp
 lvx  $inptail,$idx,$ivp
  vspltisb $one,1
 le?vxor  $inpperm,$inpperm,$tmp
 vperm  $ivec,$ivec,$inptail,$inpperm
  vsldoi  $one,$rndkey0,$one,1

 neg  r11,$inp
 ?lvsl  $keyperm,0,$key  # prepare for unaligned key
 lwz  $rounds,240($key)

 lvsr  $inpperm,0,r11  # prepare for unaligned load
 lvx  $inptail,0,$inp
 addi  $inp,$inp,15  # 15 is not typo
 le?vxor  $inpperm,$inpperm,$tmp

 srwi  $rounds,$rounds,1
 li  $idx,16
 subi  $rounds,$rounds,1

 ${UCMP}i $len,8
 bge  _aesp8_ctr32_encrypt8x
```

```
 ?lvsr  $outperm,0,$out  # prepare for unaligned store
 vspltisb $outmask,-1
 lvx  $outhead,0,$out
 ?vperm  $outmask,$rndkey0,$outmask,$outperm
 le?vxor  $outperm,$outperm,$tmp

 lvx  $rndkey0,0,$key
 mtctr  $rounds
 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$ivec,$rndkey0
 lvx  $rndkey0,$idx,$key
 addi  $idx,$idx,16
 b  Loop_ctr32_enc

.align 5
Loop_ctr32_enc:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipher  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key
 addi  $idx,$idx,16
 bdnz  Loop_ctr32_enc

 vadduwm  $ivec,$ivec,$one

 vmr  $dat,$inptail
  lvx  $inptail,0,$inp
  addi  $inp,$inp,16
  subic.  $len,$len,1  # blocks--

 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key
  vperm  $dat,$dat,$inptail,$inpperm
  li  $idx,16
 ?vperm  $rndkey1,$rndkey0,$rndkey1,$keyperm
  lvx  $rndkey0,0,$key
 vxor  $dat,$dat,$rndkey1 # last round key
 vcipherlast $inout,$inout,$dat

  lvx  $rndkey1,$idx,$key
  addi  $idx,$idx,16
```

```
 vperm  $inout,$inout,$inout,$outperm
 vsel  $dat,$outhead,$inout,$outmask

 mtctr  $rounds
  ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vmr  $outhead,$inout
  vxor  $inout,$ivec,$rndkey0
  lvx  $rndkey0,$idx,$key
  addi  $idx,$idx,16
 stvx  $dat,0,$out
 addi  $out,$out,16
 bne  Loop_ctr32_enc

 addi  $out,$out,-1
 lvx  $inout,0,$out  # redundant in aligned case
 vsel  $inout,$outhead,$inout,$outmask
 stvx  $inout,0,$out

 mtspr  256,$vrsave
 blr
 .long  0
 .byte  0,12,0x14,0,0,0,6,0
 .long  0
___
#############################################################################
{{ # Optimized CTR procedure     #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
   $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10,12..14));
my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(15..22));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
   # v26-v31 last 6 round keys
my ($tmp,$keyperm)=($in3,$in4); # aliases with "caller", redundant
 assignment
my ($two,$three,$four)=($outhead,$outperm,$outmask);

$code.=<<___;
.align 5
_aesp8_ctr32_encrypt8x:
 $STU  $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
 li  r10,`$FRAME+8*16+15`
 li  r11,`$FRAME+8*16+31`
 stvx  v20,r10,$sp  # ABI says so
 addi  r10,r10,32
 stvx  v21,r11,$sp
 addi  r11,r11,32
 stvx  v22,r10,$sp
```

```
addi  r10,r10,32
stvx  v23,r11,$sp
addi  r11,r11,32
stvx  v24,r10,$sp
addi  r10,r10,32
stvx  v25,r11,$sp
addi  r11,r11,32
stvx  v26,r10,$sp
addi  r10,r10,32
stvx  v27,r11,$sp
addi  r11,r11,32
stvx  v28,r10,$sp
addi  r10,r10,32
stvx  v29,r11,$sp
addi  r11,r11,32
stvx  v30,r10,$sp
stvx  v31,r11,$sp
li  r0,-1
stw  $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li  $x10,0x10
$PUSH  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li  $x20,0x20
$PUSH  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li  $x30,0x30
$PUSH  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li  $x40,0x40
$PUSH  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li  $x50,0x50
$PUSH  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li  $x60,0x60
$PUSH  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li  $x70,0x70
mtspr  256,r0

subi  $rounds,$rounds,3 #
-4 in total

lvx  $rndkey0,$x00,$key # load key schedule
lvx  v30,$x10,$key
addi  $key,$key,0x20
lvx  v31,$x00,$key
?vperm  $rndkey0,$rndkey0,v30,$keyperm
addi  $key_,$sp,$FRAME+15
mtctr  $rounds

Load_ctr32_enc_key:
?vperm  v24,v30,v31,$keyperm
lvx  v30,$x10,$key
```

```
addi  $key,$key,0x20
stvx  v24,$x00,$key_  # off-load round[1]
?vperm  v25,v31,v30,$keyperm
lvx  v31,$x00,$key
stvx  v25,$x10,$key_  # off-load round[2]
addi  $key_,$key_,0x20
bdnz  Load_ctr32_enc_key

lvx  v26,$x10,$key
?vperm  v24,v30,v31,$keyperm
lvx  v27,$x20,$key
stvx  v24,$x00,$key_  # off-load round[3]
?vperm  v25,v31,v26,$keyperm
lvx  v28,$x30,$key
stvx  v25,$x10,$key_  # off-load round[4]
addi  $key_,$sp,$FRAME+15 # rewind $key_
?vperm  v26,v26,v27,$keyperm
lvx  v29,$x40,$key
?vperm  v27,v27,v28,$keyperm
lvx  v30,$x50,$key
?vperm  v28,v28,v29,$keyperm
lvx  v31,$x60,$key
?vperm  v29,v29,v30,$keyperm
lvx  $out0,$x70,$key  #
borrow $out0
?vperm  v30,v30,v31,$keyperm
lvx  v24,$x00,$key_  # pre-load round[1]
?vperm  v31,v31,$out0,$keyperm
lvx  v25,$x10,$key_  # pre-load round[2]

vadduwm  $two,$one,$one
subi  $inp,$inp,15  # undo "caller"
$SHL  $len,$len,4

vadduwm  $out1,$ivec,$one # counter values ...
vadduwm  $out2,$ivec,$two
vxor  $out0,$ivec,$rndkey0 # ... xored with rndkey[0]
 le?li  $idx,8
vadduwm  $out3,$out1,$two
vxor  $out1,$out1,$rndkey0
 le?lvsl $inpperm,0,$idx
vadduwm  $out4,$out2,$two
vxor  $out2,$out2,$rndkey0
 le?vspltisb $tmp,0x0f
vadduwm  $out5,$out3,$two
vxor  $out3,$out3,$rndkey0
 le?vxor $inpperm,$inpperm,$tmp # transform for lvx_u/stvx_u
vadduwm  $out6,$out4,$two
```

```
 vxor  $out4,$out4,$rndkey0
 vadduwm  $out7,$out5,$two
 vxor  $out5,$out5,$rndkey0
 vadduwm  $ivec,$out6,$two # next counter value
 vxor  $out6,$out6,$rndkey0
 vxor  $out7,$out7,$rndkey0

 mtctr  $rounds
 b  Loop_ctr32_enc8x
.align 5
Loop_ctr32_enc8x:
 vcipher  $out0,$out0,v24
 vcipher
  $out1,$out1,v24
 vcipher  $out2,$out2,v24
 vcipher  $out3,$out3,v24
 vcipher  $out4,$out4,v24
 vcipher  $out5,$out5,v24
 vcipher  $out6,$out6,v24
 vcipher  $out7,$out7,v24
Loop_ctr32_enc8x_middle:
 lvx  v24,$x20,$key_  # round[3]
 addi  $key_,$key_,0x20

 vcipher  $out0,$out0,v25
 vcipher  $out1,$out1,v25
 vcipher  $out2,$out2,v25
 vcipher  $out3,$out3,v25
 vcipher  $out4,$out4,v25
 vcipher  $out5,$out5,v25
 vcipher  $out6,$out6,v25
 vcipher  $out7,$out7,v25
 lvx  v25,$x10,$key_  # round[4]
 bdnz  Loop_ctr32_enc8x

 subic  r11,$len,256  # $len-256, borrow $key_
 vcipher  $out0,$out0,v24
 vcipher  $out1,$out1,v24
 vcipher  $out2,$out2,v24
 vcipher  $out3,$out3,v24
 vcipher  $out4,$out4,v24
 vcipher  $out5,$out5,v24
 vcipher  $out6,$out6,v24
 vcipher  $out7,$out7,v24

 subfe  r0,r0,r0  # borrow?-1:0
 vcipher  $out0,$out0,v25
 vcipher  $out1,$out1,v25
```

```
vcipher  $out2,$out2,v25
vcipher  $out3,$out3,v25
vcipher  $out4,$out4,v25
vcipher  $out5,$out5,v25
vcipher  $out6,$out6,v25
vcipher  $out7,$out7,v25

and  r0,r0,r11
addi  $key_,$sp,$FRAME+15 #
rewind $key_
vcipher  $out0,$out0,v26
vcipher  $out1,$out1,v26
vcipher  $out2,$out2,v26
vcipher  $out3,$out3,v26
vcipher  $out4,$out4,v26
vcipher  $out5,$out5,v26
vcipher  $out6,$out6,v26
vcipher  $out7,$out7,v26
lvx  v24,$x00,$key_  # re-pre-load round[1]

subic  $len,$len,129  # $len-=129
vcipher  $out0,$out0,v27
addi  $len,$len,1  # $len-=128 really
vcipher  $out1,$out1,v27
vcipher  $out2,$out2,v27
vcipher  $out3,$out3,v27
vcipher  $out4,$out4,v27
vcipher  $out5,$out5,v27
vcipher  $out6,$out6,v27
vcipher  $out7,$out7,v27
lvx  v25,$x10,$key_  # re-pre-load round[2]

vcipher  $out0,$out0,v28
 lvx_u  $in0,$x00,$inp  # load input
vcipher  $out1,$out1,v28
 lvx_u  $in1,$x10,$inp
vcipher  $out2,$out2,v28
 lvx_u  $in2,$x20,$inp
vcipher  $out3,$out3,v28
 lvx_u  $in3,$x30,$inp
vcipher  $out4,$out4,v28
 lvx_u  $in4,$x40,$inp
vcipher  $out5,$out5,v28
 lvx_u  $in5,$x50,$inp
vcipher  $out6,$out6,v28

lvx_u  $in6,$x60,$inp
vcipher  $out7,$out7,v28
```

```
 lvx_u  $in7,$x70,$inp
 addi  $inp,$inp,0x80

vcipher  $out0,$out0,v29
 le?vperm $in0,$in0,$in0,$inpperm
vcipher  $out1,$out1,v29
 le?vperm $in1,$in1,$in1,$inpperm
vcipher  $out2,$out2,v29
 le?vperm $in2,$in2,$in2,$inpperm
vcipher  $out3,$out3,v29
 le?vperm $in3,$in3,$in3,$inpperm
vcipher  $out4,$out4,v29
 le?vperm $in4,$in4,$in4,$inpperm
vcipher  $out5,$out5,v29
 le?vperm $in5,$in5,$in5,$inpperm
vcipher  $out6,$out6,v29
 le?vperm $in6,$in6,$in6,$inpperm
vcipher  $out7,$out7,v29
 le?vperm $in7,$in7,$in7,$inpperm

add  $inp,$inp,r0  # $inp is adjusted in such
    # way that at exit from the
    # loop inX-in7 are loaded
    # with last "words"
subfe.  r0,r0,r0  # borrow?-1:0
vcipher  $out0,$out0,v30
 vxor  $in0,$in0,v31  # xor with last round key
vcipher  $out1,$out1,v30
 vxor  $in1,$in1,v31
vcipher  $out2,$out2,v30
 vxor  $in2,$in2,v31
vcipher  $out3,$out3,v30
 vxor  $in3,$in3,v31
vcipher  $out4,$out4,v30

vxor  $in4,$in4,v31
vcipher  $out5,$out5,v30
 vxor  $in5,$in5,v31
vcipher  $out6,$out6,v30
 vxor  $in6,$in6,v31
vcipher  $out7,$out7,v30
 vxor  $in7,$in7,v31

bne  Lctr32_enc8x_break # did $len-129 borrow?

vcipherlast $in0,$out0,$in0
vcipherlast $in1,$out1,$in1
 vadduwm $out1,$ivec,$one # counter values ...
```

```
vcipherlast $in2,$out2,$in2
 vadduwm $out2,$ivec,$two
 vxor  $out0,$ivec,$rndkey0 # ... xored with rndkey[0]
vcipherlast $in3,$out3,$in3
 vadduwm $out3,$out1,$two
 vxor  $out1,$out1,$rndkey0
vcipherlast $in4,$out4,$in4
 vadduwm $out4,$out2,$two
 vxor  $out2,$out2,$rndkey0
vcipherlast $in5,$out5,$in5
 vadduwm $out5,$out3,$two
 vxor  $out3,$out3,$rndkey0
vcipherlast $in6,$out6,$in6
 vadduwm $out6,$out4,$two
 vxor  $out4,$out4,$rndkey0
vcipherlast $in7,$out7,$in7
 vadduwm $out7,$out5,$two
 vxor  $out5,$out5,$rndkey0
le?vperm $in0,$in0,$in0,$inpperm
 vadduwm $ivec,$out6,$two # next counter value
 vxor  $out6,$out6,$rndkey0
le?vperm $in1,$in1,$in1,$inpperm

vxor  $out7,$out7,$rndkey0
mtctr  $rounds

 vcipher $out0,$out0,v24
stvx_u  $in0,$x00,$out
le?vperm $in2,$in2,$in2,$inpperm
 vcipher $out1,$out1,v24
stvx_u  $in1,$x10,$out
le?vperm $in3,$in3,$in3,$inpperm
 vcipher $out2,$out2,v24
stvx_u  $in2,$x20,$out
le?vperm $in4,$in4,$in4,$inpperm
 vcipher $out3,$out3,v24
stvx_u  $in3,$x30,$out
le?vperm $in5,$in5,$in5,$inpperm
 vcipher $out4,$out4,v24
stvx_u  $in4,$x40,$out
le?vperm $in6,$in6,$in6,$inpperm
 vcipher $out5,$out5,v24
stvx_u  $in5,$x50,$out
le?vperm $in7,$in7,$in7,$inpperm
 vcipher $out6,$out6,v24
stvx_u  $in6,$x60,$out
 vcipher $out7,$out7,v24
stvx_u  $in7,$x70,$out
```

```
 addi  $out,$out,0x80

 b  Loop_ctr32_enc8x_middle

.align 5
Lctr32_enc8x_break:
 cmpwi  $len,-0x60
 blt  Lctr32_enc8x_one
 nop
 beq  Lctr32_enc8x_two
 cmpwi  $len,-0x40
 blt  Lctr32_enc8x_three
 nop
 beq  Lctr32_enc8x_four
 cmpwi  $len,-0x20
 blt  Lctr32_enc8x_five
 nop
 beq  Lctr32_enc8x_six
 cmpwi  $len,0x00
 blt  Lctr32_enc8x_seven

Lctr32_enc8x_eight:
 vcipherlast $out0,$out0,$in0
 vcipherlast $out1,$out1,$in1
 vcipherlast $out2,$out2,$in2
 vcipherlast $out3,$out3,$in3
 vcipherlast $out4,$out4,$in4
 vcipherlast $out5,$out5,$in5
 vcipherlast $out6,$out6,$in6
 vcipherlast $out7,$out7,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x20,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x30,$out
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x40,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x50,$out
 le?vperm $out7,$out7,$out7,$inpperm
 stvx_u  $out6,$x60,$out
 stvx_u  $out7,$x70,$out
 addi  $out,$out,0x80
```

```
 b  Lctr32_enc8x_done

.align 5
Lctr32_enc8x_seven:
 vcipherlast $out0,$out0,$in1
 vcipherlast $out1,$out1,$in2
 vcipherlast $out2,$out2,$in3
 vcipherlast $out3,$out3,$in4
 vcipherlast $out4,$out4,$in5
 vcipherlast $out5,$out5,$in6
 vcipherlast $out6,$out6,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x20,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x30,$out
 le?vperm $out5,$out5,$out5,$inpperm
 stvx_u  $out4,$x40,$out
 le?vperm $out6,$out6,$out6,$inpperm
 stvx_u  $out5,$x50,$out
 stvx_u  $out6,$x60,$out
 addi  $out,$out,0x70
 b  Lctr32_enc8x_done

.align 5
Lctr32_enc8x_six:
 vcipherlast $out0,$out0,$in2
 vcipherlast $out1,$out1,$in3
 vcipherlast $out2,$out2,$in4
 vcipherlast $out3,$out3,$in5
 vcipherlast $out4,$out4,$in6
 vcipherlast $out5,$out5,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x20,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x30,$out
 le?vperm $out5,$out5,$out5,$inpperm
```

```
 stvx_u  $out4,$x40,$out
 stvx_u  $out5,$x50,$out
 addi  $out,$out,0x60
 b  Lctr32_enc8x_done

.align 5
Lctr32_enc8x_five:
 vcipherlast $out0,$out0,$in3
 vcipherlast $out1,$out1,$in4
 vcipherlast $out2,$out2,$in5
 vcipherlast $out3,$out3,$in6
 vcipherlast $out4,$out4,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x20,$out
 le?vperm $out4,$out4,$out4,$inpperm
 stvx_u  $out3,$x30,$out
 stvx_u  $out4,$x40,$out
 addi  $out,$out,0x50
 b  Lctr32_enc8x_done

.align 5
Lctr32_enc8x_four:
 vcipherlast $out0,$out0,$in4
 vcipherlast $out1,$out1,$in5
 vcipherlast $out2,$out2,$in6
 vcipherlast $out3,$out3,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$inpperm
 stvx_u  $out2,$x20,$out
 stvx_u  $out3,$x30,$out
 addi  $out,$out,0x40
 b  Lctr32_enc8x_done

.align 5
Lctr32_enc8x_three:
 vcipherlast $out0,$out0,$in5
 vcipherlast $out1,$out1,$in6
```

```
 vcipherlast $out2,$out2,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 le?vperm $out2,$out2,$out2,$inpperm
 stvx_u  $out1,$x10,$out
 stvx_u  $out2,$x20,$out
 addi  $out,$out,0x30
 b  Lcbc_dec8x_done

.align 5
Lctr32_enc8x_two:
 vcipherlast $out0,$out0,$in6
 vcipherlast $out1,$out1,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 le?vperm $out1,$out1,$out1,$inpperm
 stvx_u  $out0,$x00,$out
 stvx_u  $out1,$x10,$out
 addi  $out,$out,0x20
 b  Lcbc_dec8x_done

.align 5
Lctr32_enc8x_one:
 vcipherlast $out0,$out0,$in7

 le?vperm $out0,$out0,$out0,$inpperm
 stvx_u  $out0,0,$out
 addi  $out,$out,0x10

Lctr32_enc8x_done:
 li  r10,`$FRAME+15`
 li  r11,`$FRAME+31`
 stvx  $inpperm,r10,$sp #
 wipe copies of round keys
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32
 stvx  $inpperm,r10,$sp
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32
 stvx  $inpperm,r10,$sp
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32
 stvx  $inpperm,r10,$sp
```

```
 addi  r10,r10,32
 stvx  $inpperm,r11,$sp
 addi  r11,r11,32

 mtspr  256,$vrsave
 lvx  v20,r10,$sp  #
 ABI says so
 addi  r10,r10,32
 lvx  v21,r11,$sp
 addi  r11,r11,32
 lvx  v22,r10,$sp
 addi  r10,r10,32
 lvx  v23,r11,$sp
 addi  r11,r11,32
 lvx  v24,r10,$sp
 addi  r10,r10,32
 lvx  v25,r11,$sp
 addi  r11,r11,32
 lvx  v26,r10,$sp
 addi  r10,r10,32
 lvx  v27,r11,$sp
 addi  r11,r11,32
 lvx  v28,r10,$sp
 addi  r10,r10,32
 lvx  v29,r11,$sp
 addi  r11,r11,32
 lvx  v30,r10,$sp
 lvx  v31,r11,$sp
 $POP  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 $POP  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 $POP  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 $POP  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 $POP  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 $POP  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 addi  $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
 blr
 .long  0
 .byte  0,12,0x04,0,0x80,6,6,0
 .long  0
.size .${prefix}_ctr32_encrypt_blocks,.-.${prefix}_ctr32_encrypt_blocks
___
}} }}}

######################################################################
{{{ #
 XTS procedures      #
my ($inp,$out,$len,$key1,$key2,$ivp,$rounds,$idx) = map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout) =     map("v$_",(0..2));
```

```
my ($output,$inptail,$inpperm,$leperm,$keyperm) = map("v$_",(3..7));
my ($tweak,$seven,$eighty7,$tmp,$tweak1) =  map("v$_",(8..12));
my $taillen = $key2;

 ($inp,$idx) = ($idx,$inp);    # reassign

$code.=<<___;
.globl .${prefix}_xts_encrypt
.align 5
.${prefix}_xts_encrypt:
 mr  $inp,r3    # reassign
 li  r3,-1
 ${UCMP}i $len,16
 bltlr-

 lis  r0,0xfff0
 mfspr  r12,256    # save vrsave
 li  r11,0
 mtspr  256,r0

 vspltisb $seven,0x07   # 0x070707..07
 le?lvsl  $leperm,r11,r11
 le?vspltisb $tmp,0x0f
 le?vxor  $leperm,$leperm,$seven

 li  $idx,15
 lvx  $tweak,0,$ivp   # load [unaligned] iv
 lvsl  $inpperm,0,$ivp
 lvx  $inptail,$idx,$ivp
 le?vxor  $inpperm,$inpperm,$tmp
 vperm  $tweak,$tweak,$inptail,$inpperm

 ?lvsl  $keyperm,0,$key2  #
 prepare for unaligned key
 lwz  $rounds,240($key2)
 srwi  $rounds,$rounds,1
 subi  $rounds,$rounds,1
 li  $idx,16

 neg  r11,$inp
 lvsr  $inpperm,0,r11   # prepare for unaligned load
 lvx  $inout,0,$inp
 addi  $inp,$inp,15   # 15 is not typo
 le?vxor  $inpperm,$inpperm,$tmp

 lvx  $rndkey0,0,$key2
 lvx  $rndkey1,$idx,$key2
 addi  $idx,$idx,16
```

```
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $tweak,$tweak,$rndkey0
 lvx  $rndkey0,$idx,$key2
 addi  $idx,$idx,16
 mtctr  $rounds

Ltweak_xts_enc:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $tweak,$tweak,$rndkey1
 lvx  $rndkey1,$idx,$key2
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipher  $tweak,$tweak,$rndkey0
 lvx  $rndkey0,$idx,$key2
 addi  $idx,$idx,16
 bdnz  Ltweak_xts_enc

 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $tweak,$tweak,$rndkey1
 lvx  $rndkey1,$idx,$key2
 li  $idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipherlast $tweak,$tweak,$rndkey0

 lvx  $inptail,0,$inp
 addi  $inp,$inp,16

 ?lvsl  $keyperm,0,$key1  #
 prepare for unaligned key
 lwz  $rounds,240($key1)
 srwi  $rounds,$rounds,1
 subi  $rounds,$rounds,1
 li  $idx,16

 vslb  $eighty7,$seven,$seven  # 0x808080..80
 vor  $eighty7,$eighty7,$seven # 0x878787..87
 vspltisb $tmp,1    # 0x010101..01
 vsldoi  $eighty7,$eighty7,$tmp,15 # 0x870101..01

 ${UCMP}i $len,96
 bge  _aesp8_xts_encrypt6x

 andi.  $taillen,$len,15
 subic  r0,$len,32
 subi  $taillen,$taillen,16
 subfe  r0,r0,r0
 and  r0,r0,$taillen
 add  $inp,$inp,r0
```

```
 lvx  $rndkey0,0,$key1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 vperm  $inout,$inout,$inptail,$inpperm
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$inout,$tweak
 vxor  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16
 mtctr  $rounds
 b  Loop_xts_enc

.align 5
Loop_xts_enc:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipher  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16
 bdnz  Loop_xts_enc

 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key1
 li  $idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $rndkey0,$rndkey0,$tweak
 vcipherlast $output,$inout,$rndkey0

 le?vperm $tmp,$output,$output,$leperm
 be?nop
 le?stvx_u $tmp,0,$out
 be?stvx_u $output,0,$out
 addi  $out,$out,16

 subic.  $len,$len,16
 beq  Lxts_enc_done

 vmr  $inout,$inptail
 lvx  $inptail,0,$inp
 addi  $inp,$inp,16
 lvx  $rndkey0,0,$key1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
```

```
 subic  r0,$len,32
 subfe  r0,r0,r0
 and  r0,r0,$taillen
 add  $inp,$inp,r0

 vsrab  $tmp,$tweak,$seven  #
 next tweak value
 vaddubm  $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
 vand  $tmp,$tmp,$eighty7
 vxor  $tweak,$tweak,$tmp

 vperm  $inout,$inout,$inptail,$inpperm
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$inout,$tweak
 vxor  $output,$output,$rndkey0 #
 just in case $len<16
 vxor  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16

 mtctr  $rounds
 ${UCMP}i $len,16
 bge  Loop_xts_enc

 vxor  $output,$output,$tweak
 lvsr  $inpperm,0,$len   # $inpperm is no longer needed
 vxor  $inptail,$inptail,$inptail # $inptail is no longer needed
 vspltisb $tmp,-1
 vperm  $inptail,$inptail,$tmp,$inpperm
 vsel  $inout,$inout,$output,$inptail

 subi  r11,$out,17
 subi  $out,$out,16
 mtctr  $len
 li  $len,16
Loop_xts_enc_steal:
 lbzu  r0,1(r11)
 stb  r0,16(r11)
 bdnz  Loop_xts_enc_steal

 mtctr  $rounds
 b  Loop_xts_enc   # one more time...

Lxts_enc_done:
 mtspr  256,r12    # restore vrsave
 li  r3,0
```

```
 blr
 .long  0
 .byte  0,12,0x04,0,0x80,6,6,0
 .long  0
.size .${prefix}_xts_encrypt,.-.${prefix}_xts_encrypt

.globl .${prefix}_xts_decrypt
.align 5
.${prefix}_xts_decrypt:
 mr  $inp,r3    # reassign
 li  r3,-1
 ${UCMP}i $len,16
 bltlr-

 lis  r0,0xfff8
 mfspr  r12,256    #
 save vrsave
 li  r11,0
 mtspr  256,r0

 andi.  r0,$len,15
 neg  r0,r0
 andi.  r0,r0,16
 sub  $len,$len,r0

 vspltisb $seven,0x07   # 0x070707..07
 le?lvsl  $leperm,r11,r11
 le?vspltisb $tmp,0x0f
 le?vxor  $leperm,$leperm,$seven

 li  $idx,15
 lvx  $tweak,0,$ivp   # load [unaligned] iv
 lvsl  $inpperm,0,$ivp
 lvx  $inptail,$idx,$ivp
 le?vxor  $inpperm,$inpperm,$tmp
 vperm  $tweak,$tweak,$inptail,$inpperm

 ?lvsl  $keyperm,0,$key2  # prepare for unaligned key
 lwz  $rounds,240($key2)
 srwi  $rounds,$rounds,1
 subi  $rounds,$rounds,1
 li  $idx,16

 neg  r11,$inp
 lvsr  $inpperm,0,r11   # prepare for unaligned load
 lvx  $inout,0,$inp
 addi  $inp,$inp,15   # 15 is not typo
 le?vxor  $inpperm,$inpperm,$tmp
```

```
 lvx  $rndkey0,0,$key2
 lvx  $rndkey1,$idx,$key2
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $tweak,$tweak,$rndkey0
 lvx  $rndkey0,$idx,$key2
 addi  $idx,$idx,16
 mtctr  $rounds

Ltweak_xts_dec:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $tweak,$tweak,$rndkey1
 lvx  $rndkey1,$idx,$key2
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipher  $tweak,$tweak,$rndkey0
 lvx  $rndkey0,$idx,$key2
 addi  $idx,$idx,16
 bdnz  Ltweak_xts_dec

 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vcipher  $tweak,$tweak,$rndkey1
 lvx  $rndkey1,$idx,$key2
 li  $idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vcipherlast $tweak,$tweak,$rndkey0

 lvx  $inptail,0,$inp
 addi  $inp,$inp,16

 ?lvsl  $keyperm,0,$key1  #
 prepare for unaligned key
 lwz  $rounds,240($key1)
 srwi  $rounds,$rounds,1
 subi  $rounds,$rounds,1
 li  $idx,16

 vslb  $eighty7,$seven,$seven  # 0x808080..80
 vor  $eighty7,$eighty7,$seven # 0x878787..87
 vspltisb $tmp,1    # 0x010101..01
 vsldoi  $eighty7,$eighty7,$tmp,15 # 0x870101..01

 ${UCMP}i $len,96
 bge  _aesp8_xts_decrypt6x

 lvx  $rndkey0,0,$key1
 lvx  $rndkey1,$idx,$key1
```

```
 addi  $idx,$idx,16
 vperm  $inout,$inout,$inptail,$inpperm
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$inout,$tweak
 vxor  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16
 mtctr  $rounds

 ${UCMP}i $len,16
 blt  Ltail_xts_dec
 be?b  Loop_xts_dec

.align 5
Loop_xts_dec:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vncipher $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vncipher $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16
 bdnz  Loop_xts_dec

 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vncipher $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key1
 li  $idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $rndkey0,$rndkey0,$tweak
 vncipherlast $output,$inout,$rndkey0

 le?vperm $tmp,$output,$output,$leperm
 be?nop
 le?stvx_u $tmp,0,$out
 be?stvx_u $output,0,$out
 addi  $out,$out,16

 subic.  $len,$len,16
 beq  Lxts_dec_done

 vmr  $inout,$inptail
 lvx  $inptail,0,$inp
 addi  $inp,$inp,16
 lvx  $rndkey0,0,$key1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
```

```
 vsrab  $tmp,$tweak,$seven  #
 next tweak value
 vaddubm  $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
 vand  $tmp,$tmp,$eighty7
 vxor  $tweak,$tweak,$tmp

 vperm  $inout,$inout,$inptail,$inpperm
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vxor  $inout,$inout,$tweak
 vxor  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16

 mtctr  $rounds
 ${UCMP}i $len,16
 bge  Loop_xts_dec

Ltail_xts_dec:
 vsrab  $tmp,$tweak,$seven  # next tweak value
 vaddubm  $tweak1,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
 vand  $tmp,$tmp,$eighty7
 vxor  $tweak1,$tweak1,$tmp

 subi  $inp,$inp,16
 add  $inp,$inp,$len

 vxor  $inout,$inout,$tweak  # :-(
 vxor  $inout,$inout,$tweak1  # :-)

Loop_xts_dec_short:
 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vncipher $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
 vncipher $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16
 bdnz  Loop_xts_dec_short

 ?vperm  $rndkey1,$rndkey1,$rndkey0,$keyperm
 vncipher $inout,$inout,$rndkey1
 lvx  $rndkey1,$idx,$key1
 li  $idx,16
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm
```

```
 vxor  $rndkey0,$rndkey0,$tweak1
 vncipherlast $output,$inout,$rndkey0

 le?vperm $tmp,$output,$output,$leperm
 be?nop
 le?stvx_u $tmp,0,$out
 be?stvx_u $output,0,$out

 vmr  $inout,$inptail
 lvx  $inptail,0,$inp
 #addi  $inp,$inp,16
 lvx  $rndkey0,0,$key1
 lvx  $rndkey1,$idx,$key1
 addi  $idx,$idx,16
 vperm  $inout,$inout,$inptail,$inpperm
 ?vperm  $rndkey0,$rndkey0,$rndkey1,$keyperm

 lvsr  $inpperm,0,$len   #
 $inpperm is no longer needed
 vxor  $inptail,$inptail,$inptail # $inptail is no longer needed
 vspltisb $tmp,-1
 vperm  $inptail,$inptail,$tmp,$inpperm
 vsel  $inout,$inout,$output,$inptail

 vxor  $rndkey0,$rndkey0,$tweak
 vxor  $inout,$inout,$rndkey0
 lvx  $rndkey0,$idx,$key1
 addi  $idx,$idx,16

 subi  r11,$out,1
 mtctr  $len
 li  $len,16
Loop_xts_dec_steal:
 lbzu  r0,1(r11)
 stb  r0,16(r11)
 bdnz  Loop_xts_dec_steal

 mtctr  $rounds
 b  Loop_xts_dec   #
 one more time...

Lxts_dec_done:
 mtspr  256,r12    # restore vrsave
 li  r3,0
 blr
 .long  0
 .byte  0,12,0x04,0,0x80,6,6,0
 .long  0
```

```
.size .${prefix}_xts_decrypt,.-.${prefix}_xts_decrypt
___
########################################################################
{{ # Optimized XTS procedures     #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
   $x00=0 if ($flavour =~ /osx/);
my ($in0,  $in1,  $in2,  $in3,  $in4,  $in5 )=map("v$_",(0..5));
my ($out0, $out1, $out2, $out3, $out4, $out5)=map("v$_",(7,12..16));
my ($twk0, $twk1, $twk2, $twk3, $twk4, $twk5)=map("v$_",(17..22));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
   # v26-v31 last 6 round keys
my ($keyperm)=($out0); # aliases with "caller", redundant assignment
my $taillen=$x70;

$code.=<<___;
.align 5
_aesp8_xts_encrypt6x:
 $STU  $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
 mflr  r0
 li  r7,`$FRAME+8*16+15`
 li  r8,`$FRAME+8*16+31`
 $PUSH  r0,`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
 stvx  v20,r7,$sp  #
 ABI says so
 addi  r7,r7,32
 stvx  v21,r8,$sp
 addi  r8,r8,32
 stvx  v22,r7,$sp
 addi  r7,r7,32
 stvx  v23,r8,$sp
 addi  r8,r8,32
 stvx  v24,r7,$sp
 addi  r7,r7,32
 stvx  v25,r8,$sp
 addi  r8,r8,32
 stvx  v26,r7,$sp
 addi  r7,r7,32
 stvx  v27,r8,$sp
 addi  r8,r8,32
 stvx  v28,r7,$sp
 addi  r7,r7,32
 stvx  v29,r8,$sp
 addi  r8,r8,32
 stvx  v30,r7,$sp
 stvx  v31,r8,$sp
 mr  r7,r0
 li  r0,-1
```

```
 stw  $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
 li  $x10,0x10
 $PUSH  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 li  $x20,0x20
 $PUSH  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 li  $x30,0x30
 $PUSH  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 li  $x40,0x40
 $PUSH  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 li  $x50,0x50
 $PUSH  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 li  $x60,0x60
 $PUSH  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 li  $x70,0x70
 mtspr  256,r0

 subi  $rounds,$rounds,3 # -4 in total

 lvx  $rndkey0,$x00,$key1 # load key schedule
 lvx  v30,$x10,$key1
 addi  $key1,$key1,0x20
 lvx  v31,$x00,$key1
 ?vperm  $rndkey0,$rndkey0,v30,$keyperm
 addi  $key_,$sp,$FRAME+15
 mtctr  $rounds

Load_xts_enc_key:
 ?vperm  v24,v30,v31,$keyperm
 lvx  v30,$x10,$key1
 addi  $key1,$key1,0x20
 stvx  v24,$x00,$key_  #
 off-load round[1]
 ?vperm  v25,v31,v30,$keyperm
 lvx  v31,$x00,$key1
 stvx  v25,$x10,$key_  # off-load round[2]
 addi  $key_,$key_,0x20
 bdnz  Load_xts_enc_key

 lvx  v26,$x10,$key1
 ?vperm  v24,v30,v31,$keyperm
 lvx  v27,$x20,$key1
 stvx  v24,$x00,$key_  # off-load round[3]
 ?vperm  v25,v31,v26,$keyperm
 lvx  v28,$x30,$key1
 stvx  v25,$x10,$key_  # off-load round[4]
 addi  $key_,$sp,$FRAME+15 # rewind $key_
 ?vperm  v26,v26,v27,$keyperm
 lvx  v29,$x40,$key1
```

```
?vperm  v27,v27,v28,$keyperm
lvx  v30,$x50,$key1
?vperm  v28,v28,v29,$keyperm
lvx  v31,$x60,$key1
?vperm  v29,v29,v30,$keyperm
lvx  $twk5,$x70,$key1 # borrow $twk5
?vperm  v30,v30,v31,$keyperm
lvx  v24,$x00,$key_  # pre-load round[1]
?vperm  v31,v31,$twk5,$keyperm
lvx  v25,$x10,$key_  #
pre-load round[2]

 vperm  $in0,$inout,$inptail,$inpperm
 subi  $inp,$inp,31  # undo "caller"
vxor  $twk0,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
vand  $tmp,$tmp,$eighty7
 vxor  $out0,$in0,$twk0
vxor  $tweak,$tweak,$tmp

 lvx_u  $in1,$x10,$inp
vxor  $twk1,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in1,$in1,$in1,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out1,$in1,$twk1
vxor  $tweak,$tweak,$tmp

 lvx_u  $in2,$x20,$inp
 andi.  $taillen,$len,15
vxor  $twk2,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in2,$in2,$in2,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out2,$in2,$twk2
vxor  $tweak,$tweak,$tmp

 lvx_u  $in3,$x30,$inp
 sub  $len,$len,$taillen
vxor  $twk3,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven #
```

```
 next tweak value
 vaddubm  $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
  le?vperm $in3,$in3,$in3,$leperm
 vand  $tmp,$tmp,$eighty7
  vxor  $out3,$in3,$twk3
 vxor  $tweak,$tweak,$tmp

  lvx_u  $in4,$x40,$inp
  subi  $len,$len,0x60
 vxor  $twk4,$tweak,$rndkey0
 vsrab  $tmp,$tweak,$seven # next tweak value
 vaddubm  $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
  le?vperm $in4,$in4,$in4,$leperm
 vand  $tmp,$tmp,$eighty7
  vxor  $out4,$in4,$twk4
 vxor  $tweak,$tweak,$tmp

  lvx_u  $in5,$x50,$inp
  addi  $inp,$inp,0x60
 vxor  $twk5,$tweak,$rndkey0
 vsrab  $tmp,$tweak,$seven # next tweak value
 vaddubm  $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
  le?vperm $in5,$in5,$in5,$leperm
 vand  $tmp,$tmp,$eighty7
  vxor  $out5,$in5,$twk5
 vxor  $tweak,$tweak,$tmp

 vxor  v31,v31,$rndkey0
 mtctr  $rounds
 b  Loop_xts_enc6x

.align 5
Loop_xts_enc6x:
 vcipher  $out0,$out0,v24
 vcipher  $out1,$out1,v24
 vcipher  $out2,$out2,v24
 vcipher  $out3,$out3,v24
 vcipher  $out4,$out4,v24
 vcipher  $out5,$out5,v24
 lvx  v24,$x20,$key_  #
 round[3]
 addi  $key_,$key_,0x20

 vcipher  $out0,$out0,v25
 vcipher  $out1,$out1,v25
```

```
vcipher  $out2,$out2,v25
vcipher  $out3,$out3,v25
vcipher  $out4,$out4,v25
vcipher  $out5,$out5,v25
lvx  v25,$x10,$key_  # round[4]
bdnz  Loop_xts_enc6x

subic  $len,$len,96  # $len-=96
 vxor  $in0,$twk0,v31  # xor with last round key
vcipher  $out0,$out0,v24
vcipher  $out1,$out1,v24
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk0,$tweak,$rndkey0
 vaddubm $tweak,$tweak,$tweak
vcipher  $out2,$out2,v24
vcipher  $out3,$out3,v24
 vsldoi  $tmp,$tmp,$tmp,15
vcipher  $out4,$out4,v24
vcipher  $out5,$out5,v24

subfe.  r0,r0,r0  # borrow?-1:0
 vand  $tmp,$tmp,$eighty7
vcipher  $out0,$out0,v25
vcipher  $out1,$out1,v25
 vxor  $tweak,$tweak,$tmp
vcipher  $out2,$out2,v25
vcipher  $out3,$out3,v25
 vxor  $in1,$twk1,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk1,$tweak,$rndkey0
vcipher  $out4,$out4,v25
vcipher  $out5,$out5,v25

and  r0,r0,$len

vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vcipher  $out0,$out0,v26
vcipher  $out1,$out1,v26
 vand  $tmp,$tmp,$eighty7
vcipher  $out2,$out2,v26
vcipher  $out3,$out3,v26
 vxor  $tweak,$tweak,$tmp
vcipher  $out4,$out4,v26
vcipher  $out5,$out5,v26

add  $inp,$inp,r0  # $inp is adjusted in such
    # way that at exit from the
```

```
    # loop inX-in5 are loaded
    # with last "words"
 vxor  $in2,$twk2,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk2,$tweak,$rndkey0
 vaddubm $tweak,$tweak,$tweak
vcipher  $out0,$out0,v27
vcipher  $out1,$out1,v27
 vsldoi  $tmp,$tmp,$tmp,15
vcipher  $out2,$out2,v27
vcipher  $out3,$out3,v27
 vand  $tmp,$tmp,$eighty7
vcipher  $out4,$out4,v27
vcipher  $out5,$out5,v27

addi  $key_,$sp,$FRAME+15 # rewind $key_
 vxor  $tweak,$tweak,$tmp
vcipher  $out0,$out0,v28
vcipher  $out1,$out1,v28
 vxor  $in3,$twk3,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk3,$tweak,$rndkey0
vcipher  $out2,$out2,v28
vcipher  $out3,$out3,v28

vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vcipher  $out4,$out4,v28
vcipher  $out5,$out5,v28
lvx  v24,$x00,$key_  # re-pre-load round[1]
 vand  $tmp,$tmp,$eighty7

vcipher  $out0,$out0,v29
vcipher  $out1,$out1,v29
 vxor  $tweak,$tweak,$tmp
vcipher  $out2,$out2,v29
vcipher  $out3,$out3,v29
 vxor  $in4,$twk4,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk4,$tweak,$rndkey0
vcipher  $out4,$out4,v29
vcipher  $out5,$out5,v29
lvx  v25,$x10,$key_  # re-pre-load round[2]
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15

vcipher  $out0,$out0,v30
vcipher  $out1,$out1,v30
```

```
 vand  $tmp,$tmp,$eighty7
vcipher  $out2,$out2,v30
vcipher  $out3,$out3,v30
 vxor  $tweak,$tweak,$tmp
vcipher  $out4,$out4,v30
vcipher  $out5,$out5,v30
 vxor  $in5,$twk5,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk5,$tweak,$rndkey0

vcipherlast $out0,$out0,$in0
 lvx_u  $in0,$x00,$inp  # load next input
block
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vcipherlast $out1,$out1,$in1
 lvx_u  $in1,$x10,$inp
vcipherlast $out2,$out2,$in2
 le?vperm $in0,$in0,$in0,$leperm
 lvx_u  $in2,$x20,$inp
 vand  $tmp,$tmp,$eighty7
vcipherlast $out3,$out3,$in3
 le?vperm $in1,$in1,$in1,$leperm
 lvx_u  $in3,$x30,$inp
vcipherlast $out4,$out4,$in4
 le?vperm $in2,$in2,$in2,$leperm
 lvx_u  $in4,$x40,$inp
 vxor  $tweak,$tweak,$tmp
vcipherlast $tmp,$out5,$in5  # last block might be needed
    # in stealing mode
 le?vperm $in3,$in3,$in3,$leperm
 lvx_u  $in5,$x50,$inp
 addi  $inp,$inp,0x60
 le?vperm $in4,$in4,$in4,$leperm
 le?vperm $in5,$in5,$in5,$leperm

le?vperm $out0,$out0,$out0,$leperm
le?vperm $out1,$out1,$out1,$leperm
stvx_u  $out0,$x00,$out  # store output
 vxor  $out0,$in0,$twk0
le?vperm $out2,$out2,$out2,$leperm
stvx_u  $out1,$x10,$out
 vxor  $out1,$in1,$twk1
le?vperm $out3,$out3,$out3,$leperm
stvx_u  $out2,$x20,$out
 vxor  $out2,$in2,$twk2
le?vperm $out4,$out4,$out4,$leperm
stvx_u  $out3,$x30,$out
```

```
 vxor  $out3,$in3,$twk3
 le?vperm $out5,$tmp,$tmp,$leperm
 stvx_u  $out4,$x40,$out
  vxor  $out4,$in4,$twk4
 le?stvx_u $out5,$x50,$out
 be?stvx_u $tmp, $x50,$out
  vxor  $out5,$in5,$twk5
 addi  $out,$out,0x60

 mtctr  $rounds
 beq  Loop_xts_enc6x  # did $len-=96 borrow?

 addic.  $len,$len,0x60
 beq  Lxts_enc6x_zero
 cmpwi  $len,0x20
 blt  Lxts_enc6x_one
 nop
 beq  Lxts_enc6x_two
 cmpwi  $len,0x40
 blt  Lxts_enc6x_three
 nop
 beq  Lxts_enc6x_four

Lxts_enc6x_five:
 vxor  $out0,$in1,$twk0
 vxor  $out1,$in2,$twk1
 vxor  $out2,$in3,$twk2
 vxor  $out3,$in4,$twk3
 vxor  $out4,$in5,$twk4

 bl  _aesp8_xts_enc5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk5  # unused tweak
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$leperm
 stvx_u  $out2,$x20,$out
 vxor  $tmp,$out4,$twk5 # last block prep for stealing
 le?vperm $out4,$out4,$out4,$leperm
 stvx_u  $out3,$x30,$out
 stvx_u  $out4,$x40,$out
 addi  $out,$out,0x50
 bne  Lxts_enc6x_steal
 b  Lxts_enc6x_done
```

```
.align 4
Lxts_enc6x_four:
 vxor  $out0,$in2,$twk0
 vxor  $out1,$in3,$twk1
 vxor  $out2,$in4,$twk2
 vxor  $out3,$in5,$twk3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_enc5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk4  #
 unused tweak
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 vxor  $tmp,$out3,$twk4 # last block prep for stealing
 le?vperm $out3,$out3,$out3,$leperm
 stvx_u  $out2,$x20,$out
 stvx_u  $out3,$x30,$out
 addi  $out,$out,0x40
 bne  Lxts_enc6x_steal
 b  Lxts_enc6x_done

.align 4
Lxts_enc6x_three:
 vxor  $out0,$in3,$twk0
 vxor  $out1,$in4,$twk1
 vxor  $out2,$in5,$twk2
 vxor  $out3,$out3,$out3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_enc5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk3  # unused tweak
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  #
 store output
 vxor  $tmp,$out2,$twk3 # last block prep for stealing
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 stvx_u  $out2,$x20,$out
 addi  $out,$out,0x30
 bne  Lxts_enc6x_steal
 b  Lxts_enc6x_done
```

```
.align 4
Lxts_enc6x_two:
 vxor  $out0,$in4,$twk0
 vxor  $out1,$in5,$twk1
 vxor  $out2,$out2,$out2
 vxor  $out3,$out3,$out3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_enc5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk2  # unused tweak
 vxor  $tmp,$out1,$twk2 # last block prep for stealing
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 stvx_u  $out1,$x10,$out
 addi  $out,$out,0x20
 bne  Lxts_enc6x_steal
 b  Lxts_enc6x_done

.align 4
Lxts_enc6x_one:
 vxor  $out0,$in5,$twk0
 nop
Loop_xts_enc1x:
 vcipher  $out0,$out0,v24
 lvx  v24,$x20,$key_  # round[3]
 addi  $key_,$key_,0x20

 vcipher  $out0,$out0,v25
 lvx  v25,$x10,$key_  # round[4]
 bdnz  Loop_xts_enc1x

 add  $inp,$inp,$taillen
 cmpwi  $taillen,0
 vcipher  $out0,$out0,v24

 subi  $inp,$inp,16
 vcipher  $out0,$out0,v25

 lvsr  $inpperm,0,$taillen
 vcipher  $out0,$out0,v26

 lvx_u  $in0,0,$inp
 vcipher  $out0,$out0,v27

 addi  $key_,$sp,$FRAME+15 #
```

```
 rewind $key_
 vcipher  $out0,$out0,v28
 lvx  v24,$x00,$key_  # re-pre-load round[1]

 vcipher  $out0,$out0,v29
 lvx  v25,$x10,$key_  # re-pre-load round[2]
  vxor  $twk0,$twk0,v31

 le?vperm $in0,$in0,$in0,$leperm
 vcipher  $out0,$out0,v30

 vperm  $in0,$in0,$in0,$inpperm
 vcipherlast $out0,$out0,$twk0

 vmr  $twk0,$twk1  # unused tweak
 vxor  $tmp,$out0,$twk1 # last block prep for stealing
 le?vperm $out0,$out0,$out0,$leperm
 stvx_u  $out0,$x00,$out  # store output
 addi  $out,$out,0x10
 bne  Lxts_enc6x_steal
 b  Lxts_enc6x_done

.align 4
Lxts_enc6x_zero:
 cmpwi  $taillen,0
 beq  Lxts_enc6x_done

 add  $inp,$inp,$taillen
 subi  $inp,$inp,16
 lvx_u  $in0,0,$inp
 lvsr  $inpperm,0,$taillen # $in5 is no more
 le?vperm $in0,$in0,$in0,$leperm
 vperm  $in0,$in0,$in0,$inpperm
 vxor  $tmp,$tmp,$twk0
Lxts_enc6x_steal:
 vxor  $in0,$in0,$twk0
 vxor  $out0,$out0,$out0
 vspltisb $out1,-1
 vperm  $out0,$out0,$out1,$inpperm
 vsel  $out0,$in0,$tmp,$out0 #
 $tmp is last block, remember?

 subi  r3,$out,17
 subi  $out,$out,16
 mtctr  $taillen
Loop_xts_enc6x_steal:
 lbzu  r0,1(r3)
 stb  r0,16(r3)
```

```
 bdnz  Loop_xts_enc6x_steal

 li  $taillen,0
 mtctr  $rounds
 b  Loop_xts_enc1x  # one more time...

.align 4
Lxts_enc6x_done:
 mtlr  r7
 li  r10,`$FRAME+15`
 li  r11,`$FRAME+31`
 stvx  $seven,r10,$sp  # wipe copies of round keys
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32

 mtspr  256,$vrsave
 lvx  v20,r10,$sp  # ABI says so
 addi  r10,r10,32
 lvx  v21,r11,$sp
 addi  r11,r11,32
 lvx  v22,r10,$sp
 addi  r10,r10,32
 lvx  v23,r11,$sp
 addi  r11,r11,32
 lvx  v24,r10,$sp
 addi  r10,r10,32
 lvx  v25,r11,$sp
 addi  r11,r11,32
 lvx  v26,r10,$sp
 addi  r10,r10,32
 lvx  v27,r11,$sp
 addi  r11,r11,32
 lvx  v28,r10,$sp
 addi  r10,r10,32
 lvx  v29,r11,$sp
```

```
 addi  r11,r11,32
 lvx  v30,r10,$sp
 lvx  v31,r11,$sp
 $POP  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 $POP  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 $POP  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 $POP  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 $POP  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 $POP  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 addi  $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
 blr
 .long  0
 .byte  0,12,0x04,1,0x80,6,6,0
 .long  0

.align 5
_aesp8_xts_enc5x:
 vcipher  $out0,$out0,v24
 vcipher  $out1,$out1,v24
 vcipher  $out2,$out2,v24
 vcipher  $out3,$out3,v24
 vcipher  $out4,$out4,v24
 lvx  v24,$x20,$key_  #
 round[3]
 addi  $key_,$key_,0x20

 vcipher  $out0,$out0,v25
 vcipher  $out1,$out1,v25
 vcipher  $out2,$out2,v25
 vcipher  $out3,$out3,v25
 vcipher  $out4,$out4,v25
 lvx  v25,$x10,$key_  # round[4]
 bdnz  _aesp8_xts_enc5x

 add  $inp,$inp,$taillen
 cmpwi  $taillen,0
 vcipher  $out0,$out0,v24
 vcipher  $out1,$out1,v24
 vcipher  $out2,$out2,v24
 vcipher  $out3,$out3,v24
 vcipher  $out4,$out4,v24

 subi  $inp,$inp,16
 vcipher  $out0,$out0,v25
 vcipher  $out1,$out1,v25
 vcipher  $out2,$out2,v25
 vcipher  $out3,$out3,v25
 vcipher  $out4,$out4,v25
```

```
vxor  $twk0,$twk0,v31

vcipher  $out0,$out0,v26
lvsr  $inpperm,r0,$taillen # $in5 is no more
vcipher  $out1,$out1,v26
vcipher  $out2,$out2,v26
vcipher  $out3,$out3,v26
vcipher  $out4,$out4,v26
 vxor  $in1,$twk1,v31

vcipher  $out0,$out0,v27
lvx_u  $in0,0,$inp
vcipher  $out1,$out1,v27
vcipher  $out2,$out2,v27
vcipher  $out3,$out3,v27
vcipher  $out4,$out4,v27
 vxor  $in2,$twk2,v31

addi  $key_,$sp,$FRAME+15 # rewind $key_
vcipher  $out0,$out0,v28
vcipher  $out1,$out1,v28
vcipher  $out2,$out2,v28
vcipher  $out3,$out3,v28
vcipher  $out4,$out4,v28
lvx  v24,$x00,$key_  # re-pre-load round[1]
 vxor  $in3,$twk3,v31

vcipher  $out0,$out0,v29
le?vperm $in0,$in0,$in0,$leperm
vcipher  $out1,$out1,v29
vcipher  $out2,$out2,v29
vcipher  $out3,$out3,v29
vcipher  $out4,$out4,v29
lvx  v25,$x10,$key_  #
re-pre-load round[2]
 vxor  $in4,$twk4,v31

vcipher  $out0,$out0,v30
vperm  $in0,$in0,$in0,$inpperm
vcipher  $out1,$out1,v30
vcipher  $out2,$out2,v30
vcipher  $out3,$out3,v30
vcipher  $out4,$out4,v30

vcipherlast $out0,$out0,$twk0
vcipherlast $out1,$out1,$in1
vcipherlast $out2,$out2,$in2
```

```
 vcipherlast $out3,$out3,$in3
 vcipherlast $out4,$out4,$in4
 blr
      .long    0
      .byte    0,12,0x14,0,0,0,0,0

.align 5
_aesp8_xts_decrypt6x:
 $STU  $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
 mflr  r0
 li  r7,`$FRAME+8*16+15`
 li  r8,`$FRAME+8*16+31`
 $PUSH  r0,`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
 stvx  v20,r7,$sp  # ABI says so
 addi  r7,r7,32
 stvx  v21,r8,$sp
 addi  r8,r8,32
 stvx  v22,r7,$sp
 addi  r7,r7,32
 stvx  v23,r8,$sp
 addi  r8,r8,32
 stvx  v24,r7,$sp
 addi  r7,r7,32
 stvx  v25,r8,$sp
 addi  r8,r8,32
 stvx  v26,r7,$sp
 addi  r7,r7,32
 stvx  v27,r8,$sp
 addi  r8,r8,32
 stvx  v28,r7,$sp
 addi  r7,r7,32
 stvx  v29,r8,$sp
 addi  r8,r8,32
 stvx  v30,r7,$sp
 stvx  v31,r8,$sp
 mr  r7,r0
 li  r0,-1
 stw  $vrsave,`$FRAME+21*16-4`($sp) #
 save vrsave
 li  $x10,0x10
 $PUSH  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 li  $x20,0x20
 $PUSH  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 li  $x30,0x30
 $PUSH  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 li  $x40,0x40
 $PUSH  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 li  $x50,0x50
```

```
$PUSH  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li  $x60,0x60
$PUSH  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li  $x70,0x70
mtspr  256,r0

subi  $rounds,$rounds,3 # -4 in total

lvx  $rndkey0,$x00,$key1 # load key schedule
lvx  v30,$x10,$key1
addi  $key1,$key1,0x20
lvx  v31,$x00,$key1
?vperm  $rndkey0,$rndkey0,v30,$keyperm
addi  $key_,$sp,$FRAME+15
mtctr  $rounds

Load_xts_dec_key:
?vperm  v24,v30,v31,$keyperm
lvx  v30,$x10,$key1
addi  $key1,$key1,0x20
stvx  v24,$x00,$key_  # off-load round[1]
?vperm  v25,v31,v30,$keyperm
lvx  v31,$x00,$key1
stvx  v25,$x10,$key_  #
off-load round[2]
addi  $key_,$key_,0x20
bdnz  Load_xts_dec_key

lvx  v26,$x10,$key1
?vperm  v24,v30,v31,$keyperm
lvx  v27,$x20,$key1
stvx  v24,$x00,$key_  # off-load round[3]
?vperm  v25,v31,v26,$keyperm
lvx  v28,$x30,$key1
stvx  v25,$x10,$key_  # off-load round[4]
addi  $key_,$sp,$FRAME+15 # rewind $key_
?vperm  v26,v26,v27,$keyperm
lvx  v29,$x40,$key1
?vperm  v27,v27,v28,$keyperm
lvx  v30,$x50,$key1
?vperm  v28,v28,v29,$keyperm
lvx  v31,$x60,$key1
?vperm  v29,v29,v30,$keyperm
lvx  $twk5,$x70,$key1 # borrow $twk5
?vperm  v30,v30,v31,$keyperm
lvx  v24,$x00,$key_  # pre-load round[1]
?vperm  v31,v31,$twk5,$keyperm
lvx  v25,$x10,$key_  # pre-load round[2]
```

```
 vperm  $in0,$inout,$inptail,$inpperm
 subi  $inp,$inp,31  # undo "caller"
vxor  $twk0,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
vand  $tmp,$tmp,$eighty7
 vxor  $out0,$in0,$twk0
vxor  $tweak,$tweak,$tmp


lvx_u  $in1,$x10,$inp
vxor  $twk1,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in1,$in1,$in1,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out1,$in1,$twk1
vxor  $tweak,$tweak,$tmp

 lvx_u  $in2,$x20,$inp
 andi.  $taillen,$len,15
vxor  $twk2,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in2,$in2,$in2,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out2,$in2,$twk2
vxor  $tweak,$tweak,$tmp

 lvx_u  $in3,$x30,$inp
 sub  $len,$len,$taillen
vxor  $twk3,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
vaddubm  $tweak,$tweak,$tweak
vsldoi  $tmp,$tmp,$tmp,15
 le?vperm $in3,$in3,$in3,$leperm
vand  $tmp,$tmp,$eighty7
 vxor  $out3,$in3,$twk3
vxor  $tweak,$tweak,$tmp

 lvx_u  $in4,$x40,$inp
 subi  $len,$len,0x60
vxor  $twk4,$tweak,$rndkey0
vsrab  $tmp,$tweak,$seven # next tweak value
```

```
 vaddubm  $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15

 le?vperm $in4,$in4,$in4,$leperm
 vand  $tmp,$tmp,$eighty7
  vxor  $out4,$in4,$twk4
 vxor  $tweak,$tweak,$tmp

  lvx_u  $in5,$x50,$inp
  addi  $inp,$inp,0x60
 vxor  $twk5,$tweak,$rndkey0
 vsrab  $tmp,$tweak,$seven # next tweak value
 vaddubm  $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
  le?vperm $in5,$in5,$in5,$leperm
 vand  $tmp,$tmp,$eighty7
  vxor  $out5,$in5,$twk5
 vxor  $tweak,$tweak,$tmp

 vxor  v31,v31,$rndkey0
 mtctr  $rounds
 b  Loop_xts_dec6x

.align 5
Loop_xts_dec6x:
 vncipher $out0,$out0,v24
 vncipher $out1,$out1,v24
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
 vncipher $out4,$out4,v24
 vncipher $out5,$out5,v24
 lvx  v24,$x20,$key_  # round[3]
 addi  $key_,$key_,0x20

 vncipher $out0,$out0,v25
 vncipher $out1,$out1,v25
 vncipher $out2,$out2,v25
 vncipher $out3,$out3,v25
 vncipher $out4,$out4,v25
 vncipher $out5,$out5,v25
 lvx  v25,$x10,$key_  # round[4]
 bdnz  Loop_xts_dec6x

 subic  $len,$len,96  # $len-=96

 vxor  $in0,$twk0,v31  # xor with last round key
 vncipher $out0,$out0,v24
 vncipher $out1,$out1,v24
```

```
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk0,$tweak,$rndkey0
 vaddubm $tweak,$tweak,$tweak
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
 vsldoi  $tmp,$tmp,$tmp,15
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24

subfe.  r0,r0,r0  # borrow?-1:0
 vand  $tmp,$tmp,$eighty7
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
 vxor  $tweak,$tweak,$tmp
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
 vxor  $in1,$twk1,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk1,$tweak,$rndkey0
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25

and  r0,r0,$len
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
 vand  $tmp,$tmp,$eighty7
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
 vxor  $tweak,$tweak,$tmp
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26

add  $inp,$inp,r0  # $inp
is adjusted in such
    # way that at exit from the
    # loop inX-in5 are loaded
    # with last "words"
 vxor  $in2,$twk2,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk2,$tweak,$rndkey0
 vaddubm $tweak,$tweak,$tweak
vncipher $out0,$out0,v27
vncipher $out1,$out1,v27
 vsldoi  $tmp,$tmp,$tmp,15
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
```

```
 vand  $tmp,$tmp,$eighty7
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27

addi  $key_,$sp,$FRAME+15 # rewind $key_
 vxor  $tweak,$tweak,$tmp
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
 vxor  $in3,$twk3,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk3,$tweak,$rndkey0
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
lvx  v24,$x00,$key_  # re-pre-load round[1]
 vand  $tmp,$tmp,$eighty7

vncipher $out0,$out0,v29
vncipher $out1,$out1,v29
 vxor  $tweak,$tweak,$tmp
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29

vxor  $in4,$twk4,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk4,$tweak,$rndkey0
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
lvx  v25,$x10,$key_  # re-pre-load round[2]
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15

vncipher $out0,$out0,v30
vncipher $out1,$out1,v30
 vand  $tmp,$tmp,$eighty7
vncipher $out2,$out2,v30
vncipher $out3,$out3,v30
 vxor  $tweak,$tweak,$tmp
vncipher $out4,$out4,v30
vncipher $out5,$out5,v30
 vxor  $in5,$twk5,v31
 vsrab  $tmp,$tweak,$seven # next tweak value
 vxor  $twk5,$tweak,$rndkey0

vncipherlast $out0,$out0,$in0
```

```
 lvx_u  $in0,$x00,$inp  # load next input block
 vaddubm $tweak,$tweak,$tweak
 vsldoi  $tmp,$tmp,$tmp,15
vncipherlast $out1,$out1,$in1
 lvx_u  $in1,$x10,$inp
vncipherlast $out2,$out2,$in2
 le?vperm $in0,$in0,$in0,$leperm
 lvx_u  $in2,$x20,$inp
 vand  $tmp,$tmp,$eighty7
vncipherlast $out3,$out3,$in3
 le?vperm $in1,$in1,$in1,$leperm
 lvx_u  $in3,$x30,$inp
vncipherlast $out4,$out4,$in4

le?vperm $in2,$in2,$in2,$leperm
 lvx_u  $in4,$x40,$inp
 vxor  $tweak,$tweak,$tmp
vncipherlast $out5,$out5,$in5
 le?vperm $in3,$in3,$in3,$leperm
 lvx_u  $in5,$x50,$inp
 addi  $inp,$inp,0x60
 le?vperm $in4,$in4,$in4,$leperm
 le?vperm $in5,$in5,$in5,$leperm

le?vperm $out0,$out0,$out0,$leperm
le?vperm $out1,$out1,$out1,$leperm
stvx_u  $out0,$x00,$out  # store output
 vxor  $out0,$in0,$twk0
le?vperm $out2,$out2,$out2,$leperm
stvx_u  $out1,$x10,$out
 vxor  $out1,$in1,$twk1
le?vperm $out3,$out3,$out3,$leperm
stvx_u  $out2,$x20,$out
 vxor  $out2,$in2,$twk2
le?vperm $out4,$out4,$out4,$leperm
stvx_u  $out3,$x30,$out
 vxor  $out3,$in3,$twk3
le?vperm $out5,$out5,$out5,$leperm
stvx_u  $out4,$x40,$out
 vxor  $out4,$in4,$twk4
stvx_u  $out5,$x50,$out
 vxor  $out5,$in5,$twk5
addi  $out,$out,0x60

mtctr  $rounds
beq  Loop_xts_dec6x  # did $len-=96 borrow?

addic.  $len,$len,0x60
```

```
 beq  Lxts_dec6x_zero
 cmpwi  $len,0x20
 blt  Lxts_dec6x_one
 nop
 beq  Lxts_dec6x_two
 cmpwi  $len,0x40
 blt  Lxts_dec6x_three
 nop
 beq  Lxts_dec6x_four

Lxts_dec6x_five:
 vxor  $out0,$in1,$twk0
 vxor  $out1,$in2,$twk1
 vxor  $out2,$in3,$twk2
 vxor  $out3,$in4,$twk3
 vxor  $out4,$in5,$twk4

 bl  _aesp8_xts_dec5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk5  #
 unused tweak
 vxor  $twk1,$tweak,$rndkey0
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 vxor  $out0,$in0,$twk1
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$leperm
 stvx_u  $out2,$x20,$out
 le?vperm $out4,$out4,$out4,$leperm
 stvx_u  $out3,$x30,$out
 stvx_u  $out4,$x40,$out
 addi  $out,$out,0x50
 bne  Lxts_dec6x_steal
 b  Lxts_dec6x_done

.align 4
Lxts_dec6x_four:
 vxor  $out0,$in2,$twk0
 vxor  $out1,$in3,$twk1
 vxor  $out2,$in4,$twk2
 vxor  $out3,$in5,$twk3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_dec5x

 le?vperm $out0,$out0,$out0,$leperm
```

```
 vmr  $twk0,$twk4  # unused tweak
 vmr  $twk1,$twk5
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  #
 store output
 vxor  $out0,$in0,$twk5
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 le?vperm $out3,$out3,$out3,$leperm
 stvx_u  $out2,$x20,$out
 stvx_u  $out3,$x30,$out
 addi  $out,$out,0x40
 bne  Lxts_dec6x_steal
 b  Lxts_dec6x_done

.align 4
Lxts_dec6x_three:
 vxor  $out0,$in3,$twk0
 vxor  $out1,$in4,$twk1
 vxor  $out2,$in5,$twk2
 vxor  $out3,$out3,$out3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_dec5x

 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk3  # unused tweak
 vmr  $twk1,$twk4
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 vxor  $out0,$in0,$twk4
 le?vperm $out2,$out2,$out2,$leperm
 stvx_u  $out1,$x10,$out
 stvx_u  $out2,$x20,$out
 addi  $out,$out,0x30
 bne  Lxts_dec6x_steal
 b  Lxts_dec6x_done

.align 4
Lxts_dec6x_two:
 vxor  $out0,$in4,$twk0
 vxor  $out1,$in5,$twk1
 vxor  $out2,$out2,$out2
 vxor  $out3,$out3,$out3
 vxor  $out4,$out4,$out4

 bl  _aesp8_xts_dec5x
```

```
 le?vperm $out0,$out0,$out0,$leperm
 vmr  $twk0,$twk2  #
 unused tweak
 vmr  $twk1,$twk3
 le?vperm $out1,$out1,$out1,$leperm
 stvx_u  $out0,$x00,$out  # store output
 vxor  $out0,$in0,$twk3
 stvx_u  $out1,$x10,$out
 addi  $out,$out,0x20
 bne  Lxts_dec6x_steal
 b  Lxts_dec6x_done

.align 4
Lxts_dec6x_one:
 vxor  $out0,$in5,$twk0
 nop
Loop_xts_dec1x:
 vncipher $out0,$out0,v24
 lvx  v24,$x20,$key_  # round[3]
 addi  $key_,$key_,0x20

 vncipher $out0,$out0,v25
 lvx  v25,$x10,$key_  # round[4]
 bdnz  Loop_xts_dec1x

 subi  r0,$taillen,1
 vncipher $out0,$out0,v24

 andi.  r0,r0,16
 cmpwi  $taillen,0
 vncipher $out0,$out0,v25

 sub  $inp,$inp,r0
 vncipher $out0,$out0,v26

 lvx_u  $in0,0,$inp
 vncipher $out0,$out0,v27

 addi  $key_,$sp,$FRAME+15 # rewind $key_
 vncipher $out0,$out0,v28
 lvx  v24,$x00,$key_  # re-pre-load round[1]

 vncipher $out0,$out0,v29
 lvx  v25,$x10,$key_  # re-pre-load round[2]
  vxor  $twk0,$twk0,v31

 le?vperm $in0,$in0,$in0,$leperm
 vncipher $out0,$out0,v30
```

```
 mtctr  $rounds
 vncipherlast $out0,$out0,$twk0

 vmr  $twk0,$twk1  #
 unused tweak
 vmr  $twk1,$twk2
 le?vperm $out0,$out0,$out0,$leperm
 stvx_u  $out0,$x00,$out  # store output
 addi  $out,$out,0x10
 vxor  $out0,$in0,$twk2
 bne  Lxts_dec6x_steal
 b  Lxts_dec6x_done

.align 4
Lxts_dec6x_zero:
 cmpwi  $taillen,0
 beq  Lxts_dec6x_done

 lvx_u  $in0,0,$inp
 le?vperm $in0,$in0,$in0,$leperm
 vxor  $out0,$in0,$twk1
Lxts_dec6x_steal:
 vncipher $out0,$out0,v24
 lvx  v24,$x20,$key_  # round[3]
 addi  $key_,$key_,0x20

 vncipher $out0,$out0,v25
 lvx  v25,$x10,$key_  # round[4]
 bdnz  Lxts_dec6x_steal

 add  $inp,$inp,$taillen
 vncipher $out0,$out0,v24

 cmpwi  $taillen,0
 vncipher $out0,$out0,v25

 lvx_u  $in0,0,$inp
 vncipher $out0,$out0,v26

 lvsr  $inpperm,0,$taillen # $in5 is no more
 vncipher $out0,$out0,v27

 addi  $key_,$sp,$FRAME+15 # rewind $key_
 vncipher $out0,$out0,v28
 lvx  v24,$x00,$key_  # re-pre-load round[1]

 vncipher $out0,$out0,v29
```

```
 lvx  v25,$x10,$key_  # re-pre-load round[2]
  vxor  $twk1,$twk1,v31

 le?vperm $in0,$in0,$in0,$leperm
 vncipher $out0,$out0,v30

 vperm  $in0,$in0,$in0,$inpperm
 vncipherlast $tmp,$out0,$twk1

 le?vperm $out0,$tmp,$tmp,$leperm
 le?stvx_u $out0,0,$out
 be?stvx_u $tmp,0,$out

 vxor  $out0,$out0,$out0
 vspltisb $out1,-1
 vperm  $out0,$out0,$out1,$inpperm
 vsel  $out0,$in0,$tmp,$out0
 vxor  $out0,$out0,$twk0

 subi  r3,$out,1
 mtctr  $taillen
Loop_xts_dec6x_steal:
 lbzu  r0,1(r3)
 stb  r0,16(r3)
 bdnz  Loop_xts_dec6x_steal

 li  $taillen,0
 mtctr  $rounds
 b  Loop_xts_dec1x  #
 one more time...

.align 4
Lxts_dec6x_done:
 mtlr  r7
 li  r10,`$FRAME+15`
 li  r11,`$FRAME+31`
 stvx  $seven,r10,$sp  # wipe copies of round keys
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32
```

```
 stvx  $seven,r10,$sp
 addi  r10,r10,32
 stvx  $seven,r11,$sp
 addi  r11,r11,32

 mtspr  256,$vrsave
 lvx  v20,r10,$sp  #
 ABI says so
 addi  r10,r10,32
 lvx  v21,r11,$sp
 addi  r11,r11,32
 lvx  v22,r10,$sp
 addi  r10,r10,32
 lvx  v23,r11,$sp
 addi  r11,r11,32
 lvx  v24,r10,$sp
 addi  r10,r10,32
 lvx  v25,r11,$sp
 addi  r11,r11,32
 lvx  v26,r10,$sp
 addi  r10,r10,32
 lvx  v27,r11,$sp
 addi  r11,r11,32
 lvx  v28,r10,$sp
 addi  r10,r10,32
 lvx  v29,r11,$sp
 addi  r11,r11,32
 lvx  v30,r10,$sp
 lvx  v31,r11,$sp
 $POP  r26,`$FRAME+21*16+0*$SIZE_T`($sp)
 $POP  r27,`$FRAME+21*16+1*$SIZE_T`($sp)
 $POP  r28,`$FRAME+21*16+2*$SIZE_T`($sp)
 $POP  r29,`$FRAME+21*16+3*$SIZE_T`($sp)
 $POP  r30,`$FRAME+21*16+4*$SIZE_T`($sp)
 $POP  r31,`$FRAME+21*16+5*$SIZE_T`($sp)
 addi  $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
 blr
 .long  0
 .byte  0,12,0x04,1,0x80,6,6,0
 .long  0

.align 5
_aesp8_xts_dec5x:
 vncipher $out0,$out0,v24
 vncipher $out1,$out1,v24
 vncipher $out2,$out2,v24
 vncipher $out3,$out3,v24
 vncipher $out4,$out4,v24
```

```
lvx  v24,$x20,$key_  # round[3]
addi  $key_,$key_,0x20

vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
lvx  v25,$x10,$key_  #
round[4]
bdnz  _aesp8_xts_dec5x

subi  r0,$taillen,1
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24

andi.  r0,r0,16
cmpwi  $taillen,0
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
 vxor  $twk0,$twk0,v31

sub  $inp,$inp,r0
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
 vxor  $in1,$twk1,v31

vncipher $out0,$out0,v27
lvx_u  $in0,0,$inp
vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
 vxor  $in2,$twk2,v31

addi  $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
```

```
 vncipher $out3,$out3,v28
 vncipher $out4,$out4,v28
 lvx  v24,$x00,$key_  #
 re-pre-load round[1]
  vxor  $in3,$twk3,v31

 vncipher $out0,$out0,v29
 le?vperm $in0,$in0,$in0,$leperm
 vncipher $out1,$out1,v29
 vncipher $out2,$out2,v29
 vncipher $out3,$out3,v29
 vncipher $out4,$out4,v29
 lvx  v25,$x10,$key_  # re-pre-load round[2]
  vxor  $in4,$twk4,v31

 vncipher $out0,$out0,v30
 vncipher $out1,$out1,v30
 vncipher $out2,$out2,v30
 vncipher $out3,$out3,v30
 vncipher $out4,$out4,v30

 vncipherlast $out0,$out0,$twk0
 vncipherlast $out1,$out1,$in1
 vncipherlast $out2,$out2,$in2
 vncipherlast $out3,$out3,$in3
 vncipherlast $out4,$out4,$in4
 mtctr  $rounds
 blr
      .long    0
      .byte    0,12,0x14,0,0,0,0,0
___
}} }}}

my $consts=1;
foreach(split("\n",$code)) {
      s/\`([^\`]*)\`/eval($1)/geo;

 # constants table endian-specific conversion
 if ($consts && m/\.(long|byte)\s+(.+)\s+(\?[a-z]*)$/o) {
    my $conv=$3;
    my @bytes=();

    # convert to endian-agnostic format
    if ($1 eq "long") {
      foreach (split(/,\s*/,$2))
 {
  my $l = /^0/?oct:int;
  push @bytes,($l>>24)&0xff,($l>>16)&0xff,($l>>8)&0xff,$l&0xff;
```

```
      }
    } else {
 @bytes = map(/^0/?oct:int,split(/,\s*/,$2));
    }

    # little-endian conversion
    if ($flavour =~ /le$/o) {
 SWITCH: for($conv)  {
     /\?inv/ && do   { @bytes=map($_^0xf,@bytes); last; };
     /\?rev/ && do   { @bytes=reverse(@bytes);    last; };
 }
    }

    #emit
    print ".byte\t",join(',',map (sprintf("0x%02x",$_),@bytes)),"\n";
    next;
}
$consts=0 if (m/Lconsts:/o); # end of table

# instructions prefixed with '?' are endian-specific and need
# to be adjusted accordingly...
if ($flavour =~ /le$/o) { # little-endian
    s/le\?//o  or
    s/be\?/#be#/o or
    s/\?lvsr/lvsl/o or
    s/\?lvsl/lvsr/o or
    s/\?(vperm\s+v[0-9]+,\s*)(v[0-9]+,\s*)(v[0-9]+,\s*)(v[0-9]+)/$1$3$2$4/o or
    s/\?(vsldoi\s+v[0-9]+,\s*)(v[0-9]+,)\s*(v[0-9]+,\s*)([0-9]+)/$1$3$2 16-$4/o or
    s/\?(vspltw\s+v[0-9]+,\s*)(v[0-9]+,)\s*([0-9])/$1$2 3-$3/o;
}
 else {    # big-endian
    s/le\?/#le#/o or
    s/be\?//o  or
    s/\?([a-z]+)/$1/o;
 }

      print $_,"\n";
}

close STDOUT;

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#define FIPS_AUTH_KEY "etaonrishdlcupfm"
#define FIPS_AUTH_CRYPTO_OFFICER "7f92562d409c903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTO_USER "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"

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#!/usr/bin/env perl

# ====================================================================
# Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
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# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================

# I let hardware handle unaligned input(*), except on page boundaries
# (see below for details). Otherwise straightforward implementation
# with X vector in register bank. The module is big-endian [which is
# not big deal as there're no little-endian targets left around].
#
```

```
# (*) this means that this module is inappropriate for PPC403? Does
#     anybody know if pre-POWER3 can sustain unaligned load?

#    -m64 -m32
# ----------------------------------
# PPC970,gcc-4.0.0 +76% +59%
# Power6,xlc-7  +68% +33%

$flavour
 = shift;

if ($flavour =~ /64/) {
 $SIZE_T =8;
 $LRSAVE =2*$SIZE_T;
 $UCMP ="cmpld";
 $STU ="stdu";
 $POP ="ld";
 $PUSH ="std";
} elsif ($flavour =~ /32/) {
 $SIZE_T =4;
 $LRSAVE =$SIZE_T;
 $UCMP ="cmplw";
 $STU ="stwu";
 $POP ="lwz";
 $PUSH ="stw";
} else { die "nonsense $flavour"; }

$0 =~ m/(.*[\/\\])[^\/\\]+$/; $dir=$1;
( $xlate="${dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="${dir}../../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| $^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=24*$SIZE_T+64;
$LOCALS=6*$SIZE_T;

$K  ="r0";
$sp ="r1";
$toc="r2";
$ctx="r3";
$inp="r4";
$num="r5";
$t0 ="r15";
$t1 ="r6";

$A  ="r7";
$B  ="r8";
```

```
$C  ="r9";
$D  ="r10";
$E  ="r11";
$T  ="r12";

@V=($A,$B,$C,$D,$E,$T);
@X=("r16","r17","r18","r19","r20","r21","r22","r23",
   "r24","r25","r26","r27","r28","r29","r30","r31");

sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___ if ($i==0);
 lwz @X[$i],`$i*4`($inp)
___
$code.=<<___
 if ($i<15);
 lwz @X[$j],`$j*4`($inp)
 add $f,$K,$e
 rotlwi $e,$a,5
 add $f,$f,@X[$i]
 and $t0,$c,$b
 add $f,$f,$e
 andc $t1,$d,$b
 rotlwi $b,$b,30
 or $t0,$t0,$t1
 add $f,$f,$t0
___
$code.=<<___ if ($i>=15);
 add $f,$K,$e
 rotlwi $e,$a,5
 xor @X[$j%16],@X[$j%16],@X[($j+2)%16]
 add $f,$f,@X[$i%16]
 and $t0,$c,$b
 xor @X[$j%16],@X[$j%16],@X[($j+8)%16]
 add $f,$f,$e
 andc $t1,$d,$b
 rotlwi $b,$b,30
 or $t0,$t0,$t1
 xor @X[$j%16],@X[$j%16],@X[($j+13)%16]
 add $f,$f,$t0
 rotlwi @X[$j%16],@X[$j%16],1
___
}

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
```

```
$code.=<<___ if ($i<79);
 add $f,$K,$e
 rotlwi $e,$a,5
 xor @X[$j%16],@X[$j%16],@X[($j+2)%16]
 add $f,$f,@X[$i%16]
 xor $t0,$b,$c
 xor @X[$j%16],@X[$j%16],@X[($j+8)%16]
 add $f,$f,$e
 rotlwi $b,$b,30
 xor $t0,$t0,$d
 xor @X[$j%16],@X[$j%16],@X[($j+13)%16]
 add $f,$f,$t0
 rotlwi @X[$j%16],@X[$j%16],1
___
$code.=<<___ if ($i==79);
 add $f,$K,$e
 rotlwi $e,$a,5
 lwz r16,0($ctx)
 add $f,$f,@X[$i%16]
 xor $t0,$b,$c
 lwz r17,4($ctx)
 add $f,$f,$e
 rotlwi $b,$b,30
 lwz r18,8($ctx)
 xor $t0,$t0,$d
 lwz r19,12($ctx)
 add $f,$f,$t0
 lwz r20,16($ctx)
___
}

sub
 BODY_40_59 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___;
 add $f,$K,$e
 rotlwi $e,$a,5
 xor @X[$j%16],@X[$j%16],@X[($j+2)%16]
 add $f,$f,@X[$i%16]
 and $t0,$b,$c
 xor @X[$j%16],@X[$j%16],@X[($j+8)%16]
 add $f,$f,$e
 or $t1,$b,$c
 rotlwi $b,$b,30
 xor @X[$j%16],@X[$j%16],@X[($j+13)%16]
 and $t1,$t1,$d
 or $t0,$t0,$t1
```

```
 rotlwi @X[$j%16],@X[$j%16],1
 add $f,$f,$t0
___
}

$code=<<___;
.machine "any"
.text

.globl .sha1_block_data_order
.align 4
.sha1_block_data_order:
 $STU $sp,-$FRAME($sp)
 mflr r0
 $PUSH r15,`$FRAME-$SIZE_T*17`($sp)
 $PUSH r16,`$FRAME-$SIZE_T*16`($sp)
 $PUSH r17,`$FRAME-$SIZE_T*15`($sp)
 $PUSH r18,`$FRAME-$SIZE_T*14`($sp)
 $PUSH r19,`$FRAME-$SIZE_T*13`($sp)
 $PUSH r20,`$FRAME-$SIZE_T*12`($sp)
 $PUSH r21,`$FRAME-$SIZE_T*11`($sp)
 $PUSH r22,`$FRAME-$SIZE_T*10`($sp)
 $PUSH r23,`$FRAME-$SIZE_T*9`($sp)
 $PUSH r24,`$FRAME-$SIZE_T*8`($sp)
 $PUSH r25,`$FRAME-$SIZE_T*7`($sp)
 $PUSH r26,`$FRAME-$SIZE_T*6`($sp)
 $PUSH r27,`$FRAME-$SIZE_T*5`($sp)
 $PUSH r28,`$FRAME-$SIZE_T*4`($sp)
 $PUSH r29,`$FRAME-$SIZE_T*3`($sp)
 $PUSH r30,`$FRAME-$SIZE_T*2`($sp)
 $PUSH r31,`$FRAME-$SIZE_T*1`($sp)
 $PUSH r0,`$FRAME+$LRSAVE`($sp)
 lwz $A,0($ctx)
 lwz $B,4($ctx)
 lwz $C,8($ctx)
 lwz $D,12($ctx)
 lwz $E,16($ctx)
 andi. r0,$inp,3
 bne Lunaligned
Laligned:
 mtctr $num
 bl Lsha1_block_private
 b Ldone

;
 PowerPC specification allows an implementation to be ill-behaved
; upon unaligned access which crosses page boundary. "Better safe
; than sorry" principle makes me treat it specially. But I don't
```

```
; look for particular offending word, but rather for 64-byte input
; block which crosses the boundary. Once found that block is aligned
; and hashed separately...
.align 4
Lunaligned:
 subfic $t1,$inp,4096
 andi. $t1,$t1,4095 ; distance to closest page boundary
 srwi. $t1,$t1,6 ; t1/=64
 beq Lcross_page
 $UCMP $num,$t1
 ble Laligned ; didn't
 cross the page boundary
 mtctr $t1
 subfc $num,$t1,$num
 bl Lsha1_block_private
Lcross_page:
 li $t1,16
 mtctr $t1
 addi r20,$sp,$LOCALS ; spot within the frame
Lmemcpy:
 lbz r16,0($inp)
 lbz r17,1($inp)
 lbz r18,2($inp)
 lbz r19,3($inp)
 addi $inp,$inp,4
 stb r16,0(r20)
 stb r17,1(r20)
 stb r18,2(r20)
 stb r19,3(r20)
 addi r20,r20,4
 bdnz Lmemcpy

 $PUSH $inp,`$FRAME-$SIZE_T*18`($sp)
 li $t1,1
 addi $inp,$sp,$LOCALS
 mtctr $t1
 bl Lsha1_block_private
 $POP $inp,`$FRAME-$SIZE_T*18`($sp)
 addic. $num,$num,-1
 bne Lunaligned

Ldone:
 $POP r0,`$FRAME+$LRSAVE`($sp)
 $POP r15,`$FRAME-$SIZE_T*17`($sp)
 $POP r16,`$FRAME-$SIZE_T*16`($sp)
 $POP r17,`$FRAME-$SIZE_T*15`($sp)
 $POP r18,`$FRAME-$SIZE_T*14`($sp)
 $POP r19,`$FRAME-$SIZE_T*13`($sp)
```

```
 $POP r20,`$FRAME-$SIZE_T*12`($sp)
 $POP r21,`$FRAME-$SIZE_T*11`($sp)
 $POP r22,`$FRAME-$SIZE_T*10`($sp)
 $POP r23,`$FRAME-$SIZE_T*9`($sp)
 $POP r24,`$FRAME-$SIZE_T*8`($sp)
 $POP r25,`$FRAME-$SIZE_T*7`($sp)
 $POP r26,`$FRAME-$SIZE_T*6`($sp)
 $POP r27,`$FRAME-$SIZE_T*5`($sp)
 $POP r28,`$FRAME-$SIZE_T*4`($sp)
 $POP r29,`$FRAME-$SIZE_T*3`($sp)
 $POP r30,`$FRAME-$SIZE_T*2`($sp)
 $POP r31,`$FRAME-$SIZE_T*1`($sp)
 mtlr r0
 addi $sp,$sp,$FRAME
 blr
 .long 0
 .byte 0,12,4,1,0x80,18,3,0
 .long 0
___

#
 This is private block function, which uses tailored calling
# interface, namely upon entry SHA_CTX is pre-loaded to given
# registers and counter register contains amount of chunks to
# digest...
$code.=<<___;
.align 4
Lsha1_block_private:
___
$code.=<<___; # load K_00_19
 lis $K,0x5a82
 ori $K,$K,0x7999
___
for($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$code.=<<___; # load K_20_39
 lis $K,0x6ed9
 ori $K,$K,0xeba1
___
for(;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<___; # load K_40_59
 lis $K,0x8f1b
 ori $K,$K,0xbcdc
___
for(;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<___; # load K_60_79
 lis $K,0xca62
 ori $K,$K,0xc1d6
___
```

```
for(;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V));
 }
$code.=<<___;
 add r16,r16,$E
 add r17,r17,$T
 add r18,r18,$A
 add r19,r19,$B
 add r20,r20,$C
 stw r16,0($ctx)
 mr $A,r16
 stw r17,4($ctx)
 mr $B,r17
 stw r18,8($ctx)
 mr $C,r18
 stw r19,12($ctx)
 mr $D,r19
 stw r20,16($ctx)
 mr $E,r20
 addi $inp,$inp,`16*4`
 bdnz Lsha1_block_private
 blr
 .long 0
 .byte 0,12,0x14,0,0,0,0,0
___
$code.=<<___;
.asciz "SHA1 block transform for PPC, CRYPTOGAMS by <appro\@fy.chalmers.se>"
___

$code =~ s/\`([^\`]*)\`/eval $1/gem;
print $code;
close STDOUT;

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```
#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# GHASH for for PowerISA v2.07.
#
# July 2014
#
# Accurate performance measurements are problematic, because it's
```

```
# always virtualized setup with possibly throttled processor.
# Relative comparison is therefore more informative. This initial
# version is ~2.1x slower than hardware-assisted AES-128-CTR, ~12x
# faster than "4-bit" integer-only compiler-generated 64-bit code.
# "Initial version" means that there is room for futher improvement.

# May 2016
#
# 2x aggregated reduction improves performance by
 50% (resulting
# performance on POWER8 is 1 cycle per processed byte), and 4x
# aggregated reduction - by 170% or 2.7x (resulting in 0.55 cpb).

$flavour=shift;
$output =shift;

if ($flavour =~ /64/) {
 $SIZE_T=8;
 $LRSAVE=2*$SIZE_T;
 $STU="stdu";
 $POP="ld";
 $PUSH="std";
 $UCMP="cmpld";
 $SHRI="srdi";
} elsif ($flavour =~ /32/) {
 $SIZE_T=4;
 $LRSAVE=$SIZE_T;
 $STU="stwu";
 $POP="lwz";
 $PUSH="stw";
 $UCMP="cmplw";
 $SHRI="srwi";
} else { die "nonsense $flavour"; }

$sp="r1";
$FRAME=6*$SIZE_T+13*16; # 13*16 is for v20-v31 offload

$0 =~ m/(.*[\/\\])[^\/\\]+$/; $dir=$1;
( $xlate="${dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="${dir}../../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| $^X $xlate $flavour $output" || die "can't call $xlate: $!";

my ($Xip,$Htbl,$inp,$len)=map("r$_",(3..6)); # argument block

my ($Xl,$Xm,$Xh,$IN)=map("v$_",(0..3));
my ($zero,$t0,$t1,$t2,$xC2,$H,$Hh,$Hl,$lemask)=map("v$_",(4..12));
```

```
my ($Xl1,$Xm1,$Xh1,$IN1,$H2,$H2h,$H2l)=map("v$_",(13..19));
my
 $vrsave="r12";

$code=<<___;
.machine "any"

.text

.globl .gcm_init_p8
.align 5
.gcm_init_p8:
 li  r0,-4096
 li  r8,0x10
 mfspr  $vrsave,256
 li  r9,0x20
 mtspr  256,r0
 li  r10,0x30
 lvx_u  $H,0,r4   # load H

 vspltisb $xC2,-16  # 0xf0
 vspltisb $t0,1   # one
 vaddubm  $xC2,$xC2,$xC2  # 0xe0
 vxor  $zero,$zero,$zero
 vor  $xC2,$xC2,$t0  # 0xe1
 vsldoi  $xC2,$xC2,$zero,15 # 0xe1...
 vsldoi  $t1,$zero,$t0,1  # ...1
 vaddubm  $xC2,$xC2,$xC2  # 0xc2...
 vspltisb $t2,7
 vor  $xC2,$xC2,$t1  # 0xc2....01
 vspltb  $t1,$H,0  # most significant byte
 vsl  $H,$H,$t0  # H<<=1
 vsrab  $t1,$t1,$t2  # broadcast carry bit
 vand  $t1,$t1,$xC2
 vxor  $IN,$H,$t1  # twisted H

 vsldoi  $H,$IN,$IN,8  # twist even more ...
 vsldoi  $xC2,$zero,$xC2,8 # 0xc2.0
 vsldoi  $Hl,$zero,$H,8  # ... and split
 vsldoi  $Hh,$H,$zero,8

 stvx_u  $xC2,0,r3  # save pre-computed table
 stvx_u  $Hl,r8,r3
 li  r8,0x40
 stvx_u  $H, r9,r3
 li  r9,0x50
 stvx_u  $Hh,r10,r3
 li  r10,0x60
```

```
 vpmsumd  $Xl,$IN,$Hl  #
 H.loH.lo
 vpmsumd  $Xm,$IN,$H  # H.hiH.lo+H.loH.hi
 vpmsumd  $Xh,$IN,$Hh  # H.hiH.hi

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1

 vsldoi  $Xl,$Xl,$Xl,8
 vxor  $Xl,$Xl,$t2

 vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
 vpmsumd  $Xl,$Xl,$xC2
 vxor  $t1,$t1,$Xh
 vxor  $IN1,$Xl,$t1

 vsldoi  $H2,$IN1,$IN1,8
 vsldoi  $H2l,$zero,$H2,8
 vsldoi  $H2h,$H2,$zero,8

 stvx_u  $H2l,r8,r3  # save H^2
 li  r8,0x70
 stvx_u  $H2,r9,r3
 li  r9,0x80
 stvx_u  $H2h,r10,r3
 li  r10,0x90
___
{
my ($t4,$t5,$t6) = ($Hl,$H,$Hh);
$code.=<<___;
 vpmsumd  $Xl,$IN,$H2l  # H.loH^2.lo
  vpmsumd $Xl1,$IN1,$H2l  # H^2.loH^2.lo
 vpmsumd  $Xm,$IN,$H2  # H.hiH^2.lo+H.loH^2.hi
  vpmsumd $Xm1,$IN1,$H2  # H^2.hiH^2.lo+H^2.loH^2.hi
 vpmsumd  $Xh,$IN,$H2h  # H.hiH^2.hi
  vpmsumd $Xh1,$IN1,$H2h  # H^2.hiH^2.hi

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase
  vpmsumd $t6,$Xl1,$xC2  # 1st reduction
 phase

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
```

```
 vsldoi  $t4,$Xm1,$zero,8
 vsldoi  $t5,$zero,$Xm1,8
vxor  $Xl,$Xl,$t0
vxor  $Xh,$Xh,$t1
 vxor  $Xl1,$Xl1,$t4
 vxor  $Xh1,$Xh1,$t5

vsldoi  $Xl,$Xl,$Xl,8
 vsldoi  $Xl1,$Xl1,$Xl1,8
vxor  $Xl,$Xl,$t2
 vxor  $Xl1,$Xl1,$t6

vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
 vsldoi  $t5,$Xl1,$Xl1,8  # 2nd reduction phase
vpmsumd  $Xl,$Xl,$xC2
 vpmsumd $Xl1,$Xl1,$xC2
vxor  $t1,$t1,$Xh
 vxor  $t5,$t5,$Xh1
vxor  $Xl,$Xl,$t1
 vxor  $Xl1,$Xl1,$t5

vsldoi  $H,$Xl,$Xl,8
 vsldoi  $H2,$Xl1,$Xl1,8
vsldoi  $Hl,$zero,$H,8
vsldoi  $Hh,$H,$zero,8
 vsldoi  $H2l,$zero,$H2,8
 vsldoi  $H2h,$H2,$zero,8

stvx_u  $Hl,r8,r3  # save H^3
li  r8,0xa0
stvx_u  $H,r9,r3
li  r9,0xb0
stvx_u  $Hh,r10,r3
li  r10,0xc0
 stvx_u  $H2l,r8,r3  # save H^4
 stvx_u  $H2,r9,r3
 stvx_u  $H2h,r10,r3

mtspr  256,$vrsave
blr
.long  0
.byte  0,12,0x14,0,0,0,2,0
.long  0
.size .gcm_init_p8,.-.gcm_init_p8
___
}
$code.=<<___;
.globl .gcm_gmult_p8
```

```
.align 5
.gcm_gmult_p8:
 lis  r0,0xfff8
 li  r8,0x10
 mfspr  $vrsave,256
 li  r9,0x20
 mtspr  256,r0
 li  r10,0x30
 lvx_u  $IN,0,$Xip  #
 load Xi

 lvx_u  $Hl,r8,$Htbl  # load pre-computed table
  le?lvsl $lemask,r0,r0
 lvx_u  $H, r9,$Htbl
  le?vspltisb $t0,0x07
 lvx_u  $Hh,r10,$Htbl
  le?vxor $lemask,$lemask,$t0
 lvx_u  $xC2,0,$Htbl
  le?vperm $IN,$IN,$IN,$lemask
 vxor  $zero,$zero,$zero

 vpmsumd  $Xl,$IN,$Hl  # H.loXi.lo
 vpmsumd  $Xm,$IN,$H  # H.hiXi.lo+H.loXi.hi
 vpmsumd  $Xh,$IN,$Hh  # H.hiXi.hi

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1

 vsldoi  $Xl,$Xl,$Xl,8
 vxor  $Xl,$Xl,$t2

 vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
 vpmsumd  $Xl,$Xl,$xC2
 vxor  $t1,$t1,$Xh
 vxor  $Xl,$Xl,$t1

 le?vperm $Xl,$Xl,$Xl,$lemask
 stvx_u  $Xl,0,$Xip  # write out Xi

 mtspr  256,$vrsave
 blr
 .long  0
 .byte  0,12,0x14,0,0,0,2,0
 .long  0
```

```
.size .gcm_gmult_p8,.-.gcm_gmult_p8

.globl .gcm_ghash_p8
.align 5
.gcm_ghash_p8:
 li  r0,-4096
 li  r8,0x10
 mfspr  $vrsave,256
 li  r9,0x20
 mtspr  256,r0
 li  r10,0x30
 lvx_u  $Xl,0,$Xip  #
 load Xi

 lvx_u  $Hl,r8,$Htbl  # load pre-computed table
 li  r8,0x40
  le?lvsl $lemask,r0,r0
 lvx_u  $H, r9,$Htbl
 li  r9,0x50
  le?vspltisb $t0,0x07
 lvx_u  $Hh,r10,$Htbl
 li  r10,0x60
  le?vxor $lemask,$lemask,$t0
 lvx_u  $xC2,0,$Htbl
  le?vperm $Xl,$Xl,$Xl,$lemask
 vxor  $zero,$zero,$zero

 ${UCMP}i $len,64
 bge  Lgcm_ghash_p8_4x

 lvx_u  $IN,0,$inp
 addi  $inp,$inp,16
 subic.  $len,$len,16
  le?vperm $IN,$IN,$IN,$lemask
 vxor  $IN,$IN,$Xl
 beq  Lshort

 lvx_u  $H2l,r8,$Htbl  # load H^2
 li  r8,16
 lvx_u  $H2, r9,$Htbl
 add  r9,$inp,$len  # end of input
 lvx_u  $H2h,r10,$Htbl
 be?b  Loop_2x

.align 5
Loop_2x:
 lvx_u  $IN1,0,$inp
 le?vperm $IN1,$IN1,$IN1,$lemask
```

```
 subic  $len,$len,32
vpmsumd  $Xl,$IN,$H2l  # H^2.loXi.lo
 vpmsumd $Xl1,$IN1,$Hl  # H.loXi+1.lo
 subfe  r0,r0,r0  # borrow?-1:0
vpmsumd  $Xm,$IN,$H2  # H^2.hiXi.lo+H^2.loXi.hi

vpmsumd $Xm1,$IN1,$H  # H.hiXi+1.lo+H.loXi+1.hi
 and  r0,r0,$len
vpmsumd  $Xh,$IN,$H2h  # H^2.hiXi.hi
 vpmsumd $Xh1,$IN1,$Hh  # H.hiXi+1.hi
 add  $inp,$inp,r0

vxor  $Xl,$Xl,$Xl1
vxor  $Xm,$Xm,$Xm1

vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase

vsldoi  $t0,$Xm,$zero,8
vsldoi  $t1,$zero,$Xm,8
 vxor  $Xh,$Xh,$Xh1
vxor  $Xl,$Xl,$t0
vxor  $Xh,$Xh,$t1

vsldoi  $Xl,$Xl,$Xl,8
vxor  $Xl,$Xl,$t2
 lvx_u  $IN,r8,$inp
 addi  $inp,$inp,32

vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
vpmsumd  $Xl,$Xl,$xC2
 le?vperm $IN,$IN,$IN,$lemask
vxor  $t1,$t1,$Xh
vxor  $IN,$IN,$t1
vxor  $IN,$IN,$Xl
$UCMP  r9,$inp
bgt  Loop_2x   # done yet?

cmplwi  $len,0
bne  Leven

Lshort:
 vpmsumd  $Xl,$IN,$Hl  # H.loXi.lo
 vpmsumd  $Xm,$IN,$H  # H.hiXi.lo+H.loXi.hi
 vpmsumd  $Xh,$IN,$Hh  # H.hiXi.hi

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase
```

```
 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1

 vsldoi  $Xl,$Xl,$Xl,8
 vxor  $Xl,$Xl,$t2

 vsldoi  $t1,$Xl,$Xl,8  #
 2nd reduction phase
 vpmsumd  $Xl,$Xl,$xC2
 vxor  $t1,$t1,$Xh

Leven:
 vxor  $Xl,$Xl,$t1
 le?vperm $Xl,$Xl,$Xl,$lemask
 stvx_u  $Xl,0,$Xip  # write out Xi

 mtspr  256,$vrsave
 blr
 .long  0
 .byte  0,12,0x14,0,0,0,4,0
 .long  0
___
{
my ($Xl3,$Xm2,$IN2,$H3l,$H3,$H3h,
   $Xh3,$Xm3,$IN3,$H4l,$H4,$H4h) = map("v$_",(20..31));
my $IN0=$IN;
my ($H21l,$H21h,$loperm,$hiperm) = ($Hl,$Hh,$H2l,$H2h);

$code.=<<___;
.align 5
.gcm_ghash_p8_4x:
Lgcm_ghash_p8_4x:
 $STU  $sp,-$FRAME($sp)
 li  r10,`15+6*$SIZE_T`
 li  r11,`31+6*$SIZE_T`
 stvx  v20,r10,$sp
 addi  r10,r10,32
 stvx  v21,r11,$sp
 addi  r11,r11,32
 stvx  v22,r10,$sp
 addi  r10,r10,32
 stvx  v23,r11,$sp
 addi  r11,r11,32
 stvx  v24,r10,$sp
 addi  r10,r10,32
 stvx  v25,r11,$sp
```

```
addi  r11,r11,32
stvx  v26,r10,$sp
addi  r10,r10,32
stvx  v27,r11,$sp
addi  r11,r11,32
stvx  v28,r10,$sp
addi  r10,r10,32
stvx  v29,r11,$sp
addi  r11,r11,32
stvx  v30,r10,$sp
li  r10,0x60
stvx  v31,r11,$sp
li  r0,-1
stw  $vrsave,`$FRAME-4`($sp) #
save vrsave
mtspr  256,r0   # preserve all AltiVec registers

lvsl  $t0,0,r8  # 0x0001..0e0f
#lvx_u  $H2l,r8,$Htbl  # load H^2
li  r8,0x70
lvx_u  $H2, r9,$Htbl
li  r9,0x80
vspltisb $t1,8   # 0x0808..0808
#lvx_u  $H2h,r10,$Htbl
li  r10,0x90
lvx_u  $H3l,r8,$Htbl  # load H^3
li  r8,0xa0
lvx_u  $H3, r9,$Htbl
li  r9,0xb0
lvx_u  $H3h,r10,$Htbl
li  r10,0xc0
lvx_u  $H4l,r8,$Htbl  # load H^4
li  r8,0x10
lvx_u  $H4, r9,$Htbl
li  r9,0x20
lvx_u  $H4h,r10,$Htbl
li  r10,0x30

vsldoi  $t2,$zero,$t1,8  # 0x0000..0808
vaddubm  $hiperm,$t0,$t2  # 0x0001..1617
vaddubm  $loperm,$t1,$hiperm # 0x0809..1e1f

$SHRI  $len,$len,4  # this allows to use sign bit
    # as carry
lvx_u  $IN0,0,$inp  # load input
lvx_u  $IN1,r8,$inp
subic.  $len,$len,8
lvx_u  $IN2,r9,$inp
```

```
 lvx_u  $IN3,r10,$inp
 addi  $inp,$inp,0x40
 le?vperm $IN0,$IN0,$IN0,$lemask
 le?vperm $IN1,$IN1,$IN1,$lemask
 le?vperm $IN2,$IN2,$IN2,$lemask
 le?vperm $IN3,$IN3,$IN3,$lemask

 vxor  $Xh,$IN0,$Xl

  vpmsumd $Xl1,$IN1,$H3l

 vpmsumd $Xm1,$IN1,$H3
  vpmsumd $Xh1,$IN1,$H3h

  vperm  $H21l,$H2,$H,$hiperm
  vperm  $t0,$IN2,$IN3,$loperm
  vperm  $H21h,$H2,$H,$loperm
  vperm  $t1,$IN2,$IN3,$hiperm
  vpmsumd $Xm2,$IN2,$H2  # H^2.loXi+2.hi+H^2.hiXi+2.lo
  vpmsumd $Xl3,$t0,$H21l  # H^2.loXi+2.lo+H.loXi+3.lo
  vpmsumd $Xm3,$IN3,$H  # H.hiXi+3.lo  +H.loXi+3.hi
  vpmsumd $Xh3,$t1,$H21h  # H^2.hiXi+2.hi+H.hiXi+3.hi

  vxor  $Xm2,$Xm2,$Xm1
  vxor  $Xl3,$Xl3,$Xl1
  vxor  $Xm3,$Xm3,$Xm2
  vxor  $Xh3,$Xh3,$Xh1

 blt  Ltail_4x

Loop_4x:
 lvx_u  $IN0,0,$inp
 lvx_u  $IN1,r8,$inp
 subic.  $len,$len,4
 lvx_u  $IN2,r9,$inp
 lvx_u  $IN3,r10,$inp
 addi  $inp,$inp,0x40
 le?vperm $IN1,$IN1,$IN1,$lemask
 le?vperm $IN2,$IN2,$IN2,$lemask
 le?vperm $IN3,$IN3,$IN3,$lemask
 le?vperm $IN0,$IN0,$IN0,$lemask

 vpmsumd  $Xl,$Xh,$H4l  # H^4.loXi.lo
 vpmsumd  $Xm,$Xh,$H4  # H^4.hiXi.lo+H^4.loXi.hi
 vpmsumd  $Xh,$Xh,$H4h  # H^4.hiXi.hi
  vpmsumd $Xl1,$IN1,$H3l
  vpmsumd $Xm1,$IN1,$H3
  vpmsumd $Xh1,$IN1,$H3h
```

```
 vxor  $Xl,$Xl,$Xl3
 vxor  $Xm,$Xm,$Xm3
 vxor  $Xh,$Xh,$Xh3

 vperm  $t0,$IN2,$IN3,$loperm
  vperm  $t1,$IN2,$IN3,$hiperm

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction phase
  vpmsumd $Xl3,$t0,$H21l  # H.loXi+3.lo  +H^2.loXi+2.lo
  vpmsumd $Xh3,$t1,$H21h  # H.hiXi+3.hi  +H^2.hiXi+2.hi

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1

 vsldoi  $Xl,$Xl,$Xl,8
 vxor  $Xl,$Xl,$t2

 vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
  vpmsumd $Xm2,$IN2,$H2  # H^2.hiXi+2.lo+H^2.loXi+2.hi
  vpmsumd $Xm3,$IN3,$H  # H.hiXi+3.lo  +H.loXi+3.hi
 vpmsumd  $Xl,$Xl,$xC2

  vxor  $Xl3,$Xl3,$Xl1
  vxor  $Xh3,$Xh3,$Xh1
 vxor  $Xh,$Xh,$IN0
  vxor  $Xm2,$Xm2,$Xm1
 vxor  $Xh,$Xh,$t1
  vxor  $Xm3,$Xm3,$Xm2
 vxor  $Xh,$Xh,$Xl
 bge  Loop_4x

Ltail_4x:
 vpmsumd  $Xl,$Xh,$H4l  # H^4.loXi.lo
 vpmsumd  $Xm,$Xh,$H4  # H^4.hiXi.lo+H^4.loXi.hi
 vpmsumd  $Xh,$Xh,$H4h  # H^4.hiXi.hi

 vxor  $Xl,$Xl,$Xl3
 vxor  $Xm,$Xm,$Xm3

 vpmsumd  $t2,$Xl,$xC2  # 1st reduction
 phase

 vsldoi  $t0,$Xm,$zero,8
 vsldoi  $t1,$zero,$Xm,8
  vxor  $Xh,$Xh,$Xh3
```

```
 vxor  $Xl,$Xl,$t0
 vxor  $Xh,$Xh,$t1

 vsldoi  $Xl,$Xl,$Xl,8
 vxor  $Xl,$Xl,$t2

 vsldoi  $t1,$Xl,$Xl,8  # 2nd reduction phase
 vpmsumd  $Xl,$Xl,$xC2
 vxor  $t1,$t1,$Xh
 vxor  $Xl,$Xl,$t1

 addic.  $len,$len,4
 beq  Ldone_4x

 lvx_u  $IN0,0,$inp
 ${UCMP}i $len,2
 li  $len,-4
 blt  Lone
 lvx_u  $IN1,r8,$inp
 beq  Ltwo

Lthree:
 lvx_u  $IN2,r9,$inp
 le?vperm $IN0,$IN0,$IN0,$lemask
 le?vperm $IN1,$IN1,$IN1,$lemask
 le?vperm $IN2,$IN2,$IN2,$lemask

 vxor  $Xh,$IN0,$Xl
 vmr  $H4l,$H3l
 vmr  $H4, $H3
 vmr  $H4h,$H3h

 vperm  $t0,$IN1,$IN2,$loperm
 vperm  $t1,$IN1,$IN2,$hiperm
 vpmsumd  $Xm2,$IN1,$H2  # H^2.loXi+1.hi+H^2.hiXi+1.lo
 vpmsumd  $Xm3,$IN2,$H  # H.hiXi+2.lo  +H.loXi+2.hi
 vpmsumd  $Xl3,$t0,$H21l  # H^2.loXi+1.lo+H.loXi+2.lo
 vpmsumd  $Xh3,$t1,$H21h  # H^2.hiXi+1.hi+H.hiXi+2.hi

 vxor  $Xm3,$Xm3,$Xm2
 b  Ltail_4x

.align 4
Ltwo:
 le?vperm $IN0,$IN0,$IN0,$lemask
 le?vperm $IN1,$IN1,$IN1,$lemask

 vxor  $Xh,$IN0,$Xl
```

```
 vperm  $t0,$zero,$IN1,$loperm
 vperm  $t1,$zero,$IN1,$hiperm

 vsldoi  $H4l,$zero,$H2,8
 vmr  $H4,
 $H2
 vsldoi  $H4h,$H2,$zero,8

 vpmsumd  $Xl3,$t0, $H21l  # H.loXi+1.lo
 vpmsumd  $Xm3,$IN1,$H  # H.hiXi+1.lo+H.loXi+2.hi
 vpmsumd  $Xh3,$t1, $H21h  # H.hiXi+1.hi

 b  Ltail_4x

.align 4
Lone:
 le?vperm $IN0,$IN0,$IN0,$lemask

 vsldoi  $H4l,$zero,$H,8
 vmr  $H4, $H
 vsldoi  $H4h,$H,$zero,8

 vxor  $Xh,$IN0,$Xl
 vxor  $Xl3,$Xl3,$Xl3
 vxor  $Xm3,$Xm3,$Xm3
 vxor  $Xh3,$Xh3,$Xh3

 b  Ltail_4x

Ldone_4x:
 le?vperm $Xl,$Xl,$Xl,$lemask
 stvx_u  $Xl,0,$Xip  # write out Xi

 li  r10,`15+6*$SIZE_T`
 li  r11,`31+6*$SIZE_T`
 mtspr  256,$vrsave
 lvx  v20,r10,$sp
 addi  r10,r10,32
 lvx  v21,r11,$sp
 addi  r11,r11,32
 lvx  v22,r10,$sp
 addi  r10,r10,32
 lvx  v23,r11,$sp
 addi  r11,r11,32
 lvx  v24,r10,$sp
 addi  r10,r10,32
 lvx  v25,r11,$sp
 addi  r11,r11,32
```

```
 lvx  v26,r10,$sp
 addi  r10,r10,32
 lvx  v27,r11,$sp
 addi  r11,r11,32
 lvx  v28,r10,$sp
 addi  r10,r10,32
 lvx  v29,r11,$sp
 addi  r11,r11,32
 lvx  v30,r10,$sp
 lvx  v31,r11,$sp
 addi  $sp,$sp,$FRAME
 blr
 .long  0
 .byte  0,12,0x04,0,0x80,0,4,0
 .long  0
___
}
$code.=<<___;
.size .gcm_ghash_p8,.-.gcm_ghash_p8

.asciz
  "GHASH for PowerISA 2.07, CRYPTOGAMS by <appro\@openssl.org>"
.align  2
___

foreach (split("\n",$code)) {
 s/\`([^\`]*)\`/eval $1/geo;

 if ($flavour =~ /le$/o) { # little-endian
     s/le\?//o  or
     s/be\?/#be#/o;
 } else {
     s/le\?/#le#/o or
     s/be\?//o;
 }
 print $_,"\n";
}

close STDOUT; # enforce flush
```

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 tlhelp32.h - Include file for Tool help functions.

 Written by Mumit Khan <khan@nanotech.wisc.edu>

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1.450 json-c 1.7.10

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1.453 cryptsetup 2.0.4

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1.455 bind 8.2.0

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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh,
admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param
 name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
```

```
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.457 openssl 1.0.1j

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1.459 libvirt 4.7.0

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
```

```
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.462 openssl 1.0.1e

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=========

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Version 3, 29 June 2007

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version 0.1
##
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1.465 e2fsprogs 1.44.3

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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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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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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
-
- Copyright (C) Andrew Tridgell 2005
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Gadi Oxman, August 1995

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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"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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1.466 dtc 1.4.7

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The End

1.469 websocketpp 0.8.1

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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L. Peter Deutsch
ghost@aladdin.com

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1.470 libseccomp 2.3.3

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would
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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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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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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

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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
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative
work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it

contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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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.

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally

available free
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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>

for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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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,
the module unloading problems, ...

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
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Version 1.0

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1.478 libnl3 1.1.4-3.el7

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1.480 libnl3 3.2.25

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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
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distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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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
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1.481 libnl3 3.4.0

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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
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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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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.

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d) If a facility in the modified Library refers to a function or a
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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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application. Therefore, Subsection 2d requires that any
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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
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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.

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1.488 jquery 3.5.1

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1.489 linux-kernel 3.14.39

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1.490 iperf 3.6

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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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```
================================================
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>`_ -
 a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them
 individually in setup.py

* Automatically include all relevant files in your source distributions,
 without needing to create a ``MANIFEST.in`` file, and without having to force
```

regeneration of the ``MANIFEST`` file when your source tree changes.

* Automatically generate wrapper scripts or Windows
(console and GUI) .exe
files for any number of "main" functions in your project. (Note: this is not
a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list ``.pyx`` files and
still work even when the end-user doesn't have Pyrex installed (as long as
you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut
names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on
``sys.path``, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or ``setup()`` arguments, and
distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover
extensions,
using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`_

Developer's Guide

Installing ``setuptools``
==========

Please follow the `EasyInstall Installation Instructions`_ to install the

current stable version of setuptools. In particular, be sure to read the
section on `Custom Installation Locations`_ if you are installing anywhere
other than Python's ``site-packages`` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

..
 _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first
install a stable version, and then run::

  ez_setup.py setuptools==dev

This will download and install the latest development (i.e. unstable) version
of setuptools from the Python Subversion sandbox.

Basic Use
=========

For basic use of setuptools, just import things from setuptools instead of
the distutils. Here's a minimal setup script using setuptools::

  from setuptools import setup, find_packages
  setup(
      name = "HelloWorld",
      version = "0.1",
      packages = find_packages(),
)

As you can see, it doesn't take much to use setuptools in a project.
Run that script in your project folder, alongside the Python packages
you have developed.

Invoke that script to produce eggs, upload to
PyPI, and automatically include all packages in the directory where the
setup.py lives. See
 the `Command Reference`_ section below to see what
commands you can give to this setup script. For example,
to produce a source distribution, simply invoke::

  python setup.py sdist

Of course, before you release your project to PyPI, you'll want to add a bit
more information to your setup script to help people find or learn about your
project. And maybe your project will have grown by then to include a few
dependencies, and perhaps some data files and scripts::

```
  from setuptools import setup, find_packages
  setup(
      name = "HelloWorld",
      version = "0.1",
      packages = find_packages(),
      scripts = ['say_hello.py'],

      # Project uses reStructuredText, so ensure that the docutils get
      # installed or upgraded on the target machine
      install_requires = ['docutils>=0.3'],

      package_data = {
          # If any package contains *.txt or *.rst files, include them:
          '': ['*.txt', '*.rst'],
          # And include any *.msg
 files found in the 'hello' package, too:
          'hello': ['*.msg'],
      },

      # metadata for upload to PyPI
      author = "Me",
      author_email = "me@example.com",
      description = "This is an Example Package",
      license = "PSF",
      keywords = "hello world example examples",
      url = "http://example.com/HelloWorld/",   # project home page, if any

      # could also include long_description, download_url, classifiers, etc.
  )
```

In the sections that follow, we'll explain what most of these ``setup()``
arguments do (except for the metadata ones), and the various ways you might use
them in your own project(s).

Specifying Your Project's Version

Setuptools can work well with most versioning schemes; there are, however, a
few special things to watch out for, in order to ensure that setuptools and
EasyInstall can always tell what version of your package is newer than another
version. Knowing these things
 will also help you correctly specify what
versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release
or post-release tags. A release number is a series of digits punctuated by

dots, such as ``2.4`` or ``0.5``. Each series of digits is treated
numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the
same release number, denoting the first subrelease of release 2. But ``2.10``
is the *tenth* subrelease of release 2, and so is a different and newer release
from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also
ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release
tag. Pre-release tags make a version be considered *older* than the version
they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``,
which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease
 tags make
a version be considered *newer* than the version they are appended to. So,
revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are *older*
than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before
"final". Some examples of prerelease tags would include ``alpha``, ``beta``,
``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash
before the prerelease tag if it's immediately after a number, but it's okay to
do so if you prefer. Thus, ``2.4c1`` and ``2.4.c1`` and ``2.4-c1`` all
represent release candidate 1 of version ``2.4``, and are treated as identical
by setuptools.

In addition, there are three special prerelease tags that are treated as if
they were the letter ``c``: ``pre``, ``preview``, and ``rc``. So, version
``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as
``2.4c1``, and are treated as identical by setuptools.

A post-release
 tag is either a series of letters that are alphabetically
greater than or equal to "final", or a dash (``-``). Post-release tags are
generally used to separate patch numbers, port numbers, build numbers, revision
numbers, or date stamps from the release number. For example, the version
``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of
version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped
post-release.

Notice that after each pre or post-release tag, you are free to place another
release number, followed again by more pre- or post-release tags. For example,
``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-
development version of the ninth alpha of release 0.6. Notice that ``dev`` is
a pre-release tag, so this version is a *lower* version number than ``0.6a9``,
which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is
a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the

most part, setuptools' interpretation of version numbers is intuitive,
but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number
  between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``,
  not a development pre-release of ``1.9a``. Use ``.dev`` instead, as in
  ``1.9a.dev``, or separate the prerelease tags with a number, as in
  ``1.9a0dev``. ``1.9a.dev``, ``1.9a0dev``, and even ``1.9.a.dev`` are
  identical versions from setuptools' point of view, so you can use whatever
  scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way
  you think it will, you can use the ``pkg_resources.parse_version()`` function
  to compare different version numbers::

    >>> from pkg_resources import parse_version
    >>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
    True
    >>> parse_version('2.1-rc2') < parse_version('2.1')
    True
     >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
    True

Once you've decided on a version numbering scheme for your project, you can
have setuptools automatically tag your in-development releases with various
pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The `egg_info`_ command

New and Changed ``setup()`` Keywords
====================================

The following keyword arguments to ``setup()`` are added or changed by
``setuptools``. All of them are optional; you do not have to supply them
unless you need the associated ``setuptools`` feature.

``include_package_data``
  If set to ``True``, this tells ``setuptools`` to automatically include any
  data files it finds inside your package directories that are specified by
  your ``MANIFEST.in`` file. For more information, see the section below on
  `Including Data Files`_.

``exclude_package_data``
   A dictionary mapping package names to lists of glob patterns that should
  be *excluded* from your package directories. You can use this to trim back

any excess files included by ``include_package_data``. For a complete description and examples, see the section below on `Including Data Files`_.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`_. You do not need to use this option if you are using ``include_package_data``, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied,
the ``bdist_egg`` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins`_ for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`_.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to
support those features. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. ``setuptools`` will attempt to obtain these (even going so far as to download them using ``EasyInstall``) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ``setup_requires`` will NOT be automatically
installed on the system where the setup script is being run. They are
simply downloaded to the ./.eggs directory if they're not locally available
already. If you want them to be installed, as well as being available
when the setup script
is run, you should add them to ``install_requires``
and ``setup_requires``.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies.
These links will be used if needed to install packages specified by
``setup_requires`` or ``tests_require``. They will also be written into
the egg's metadata for use by tools like EasyInstall to use when installing
an ``.egg`` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace
package is a package that may be split across multiple project
distributions. For example, Zope 3's ``zope`` package is a namespace
package, because subpackages like ``zope.interface`` and ``zope.publisher``
may be distributed separately. The egg runtime system can automatically
merge such subpackages into a single parent package at runtime, as long
as you declare them in each project that contains any subpackages of the
namespace
package, and as long as the namespace package's ``__init__.py``
does not contain any code other than a namespace declaration. See the
section below on `Namespace Packages`_ for more information.

``test_suite``
A string naming a ``unittest.TestCase`` subclass (or a package or module
containing one or more of them, or a method of such a subclass), or naming
a function that can be called with no arguments and returns a
``unittest.TestSuite``. If the named suite is a module, and the module
has an ``additional_tests()`` function, it is called and the results are
added to the tests to be run. If the named suite is a package, any
submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test`_ command to run the
specified test suite, e.g. via ``setup.py test``. See the section on the
`test`_ command below for more details.

``tests_require``
If your project's tests need
one or more additional packages besides those
needed to install it, you can use this option to specify them. It should
be a string or list of strings specifying what other distributions need to
be present for the package's tests to run. When you run the ``test``
command, ``setuptools`` will attempt to obtain these (even going

so far as to download them using ``EasyInstall``). Note that these
required projects will *not* be installed on the system where the tests
are run, but only downloaded to the project's setup directory if they're
not already installed locally.

.. _test_loader:

``test_loader``
If you would like to use a different way of finding tests to run than what
setuptools normally uses, you can specify a module name and class name in
this argument. The named class must be instantiable with no arguments, and
its instances must support the ``loadTestsFromNames()`` method as defined
in the Python ``unittest`` module's ``TestLoader``
class. Setuptools will
pass only one test "name" in the `names` argument: the value supplied for
the ``test_suite`` argument. The loader you specify may interpret this
string in any way it likes, as there are no restrictions on what may be
contained in a ``test_suite`` string.

The module name and class name must be separated by a ``:``. The default
value of this argument is ``"setuptools.command.test:ScanningLoader"``. If
you want to use the default ``unittest`` behavior, you can specify
``"unittest:TestLoader"`` as your ``test_loader`` argument instead. This
will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package,
as long as you use the ``tests_require`` option to ensure that the package
containing the loader class is available when the ``test`` command is run.

``eager_resources``
A list of strings naming resources that should be extracted
together, if
any of them is needed, or if any C extensions included in the project are
imported. This argument is only useful if the project will be installed as
a zipfile, and there is a need to have all of the listed resources be
extracted to the filesystem *as a unit*. Resources listed here
should be '/'-separated paths, relative to the source root, so to list a
resource ``foo.png`` in package ``bar.baz``, you would include the string
``bar/baz/foo.png`` in this argument.

If you only need to obtain resources one at a time, or you don't have any C
extensions that access other files in the project (such as data files or
shared libraries), you probably do NOT need this argument and shouldn't
mess with it. For more details on how this argument works, see the section
below on `Automatic Resource Extraction`_.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the

build process. See :doc:`python3`
for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during
the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

For simple projects, it's usually easy enough to manually add packages to the ``packages`` argument of ``setup()``. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ``setuptools.find_packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same
directory as the setup script. Some projects use a ``src`` or ``lib`` directory as the root of their source tree, and those projects would of course use ``"src"`` or
``"lib"`` as the first argument to ``find_packages()``. (And
such projects also need something like ``package_dir = {'':'src'}`` in their ``setup()`` arguments, but that's just a normal distutils thing.)

Anyway, ``find_packages()`` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ``__init__.py`` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For
example, ``find_packages(exclude=["*.tests"])`` will exclude all packages whose last name part is ``tests``. Or, ``find_packages(exclude=["*.tests", "*.tests.*"])`` will also exclude any subpackages of packages named ``tests``, but it still won't exclude a top-level ``tests`` package or the children thereof. In fact, if you really want no ``tests`` packages at all, you'll need something like this::

```
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified

package and its subpackages.

Regardless of the parameters, the ``find_packages()``
function returns a list of package names suitable for use as the ``packages``
argument to ``setup()``, and so is usually the easiest way to set that
argument in your setup script. Especially since it frees you from having to
remember to modify your setup script whenever your project grows additional
top-level packages or subpackages.

Automatic Script Creation
=========================

Packaging and installing scripts can be a bit awkward with the distutils. For
one thing, there's no easy way to have a script's filename match local
conventions on both Windows and POSIX platforms. For another, you often have
to create a separate file just for the "main" script, when your actual
 "main"
is a function in a module somewhere. And even in Python 2.4, using the ``-m``
option only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts
for you with the correct extension, and on Windows it will even create an
``.exe`` file so that users don't have to change their ``PATHEXT`` settings.
The way to use this feature is to define "entry points" in your setup script
that indicate what function the generated script should import and run. For
example, to create two console scripts called ``foo`` and ``bar``, and a GUI
script called ``baz``, you might do something like this::

```
  setup(
     # other arguments here...
     entry_points={
        'console_scripts': [
           'foo = my_package.some_module:main_func',
           'bar = other_module:some_func',
        ],
        'gui_scripts': [
           'baz = my_package_gui:start_func',

 ]
     }
  )
```

When this project is installed on non-Windows platforms (using "setup.py
install", "setup.py develop", or by using EasyInstall), a set of ``foo``,
``bar``, and ``baz`` scripts will be installed that import ``main_func`` and
``some_func`` from the specified modules. The functions you specify are called
with no arguments, and their return value is passed to ``sys.exit()``, so you

can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to ``sys.path`` when the script is run. For more information on "extras", see the section below on `Declaring Extras`_.
For more information
on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`_.

"Eggsecutable" Scripts

Occasionally, there are situations where it's desirable to make an ``.egg`` file directly executable. You can do this by including an entry point such as the following::

```
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls ``main_func()`` from ``my_package.some_module``. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with ``/bin/sh``, or by enabling execute permissions on the ``.egg`` file. For the executable prelude to run, the appropriate version of Python must be available via the ``PATH`` environment variable,
under its
"long" name. That is, if the egg is built for Python 2.3, there must be a ``python2.3`` executable present in a directory on ``PATH``.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in

order to ensure that, once running, ``pkg_resources`` will know what project and version is in use. The header script will check this and exit with an error if the ``.egg`` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies
======================

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools``
 and ``pkg_resources`` use a common syntax for specifying a
project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators ``<``, ``>``, ``<=``, ``>=``, ``==`` or ``!=``, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with ``-``.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ``">1, >2"`` becomes ``">1"``, and ``"<2,<3"`` becomes ``"<3"``). ``"!="`` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting
 ranges. (Note that providing conflicting conditions
for the same version (e.g. "<2,>=2" or "==2,!=2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::

```
  docutils >= 0.3

  # comment lines and \ continuations are allowed in requirement strings
  BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
     ==1.6, ==1.7  # and so are line-end comments

  PEAK[FastCGI, reST]>=0.5a4

  setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the ``install_requires`` argument to ``setup()``. It takes a string or list of strings containing requirement specifiers. If you include more than one

requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, ``setup.py
  install``, or ``setup.py develop``, all of the dependencies not already
  installed will be located (via PyPI), downloaded, built (if necessary),
   and installed.

2. Any scripts in your project will be installed with wrappers that verify
  the availability of the specified dependencies at runtime, and ensure that
  the correct versions are added to ``sys.path`` (e.g. if multiple versions
  have been installed).

3. Python Egg distributions will include a metadata file listing the
  dependencies.

Note, by the way, that if you declare your dependencies in ``setup.py``, you do
not need to use the ``require()`` function in your scripts or modules, as
long as you either install the project or use ``setup.py develop`` to do
development work on it. (See `"Development Mode"`_ below for more details on
using ``setup.py develop``.)

Dependencies that aren't in PyPI

If your project depends on packages that aren't registered in PyPI, you may
still be able to depend on them, as long as they are available for download
as:

- an egg, in the standard distutils ``sdist`` format,
- a single ``.py`` file,
 or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the ``dependency_links`` argument to
``setup()``.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less
complex to update a web page than to release a new version of your project.
You can also use a SourceForge ``showfiles.php`` link in the case where a

package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single ``.py`` file, you
must include an ``"#egg=project-version"`` suffix to the URL, to give a project
name and version number. (Be sure to escape any dashes in the name or version
by replacing them with underscores.) EasyInstall will recognize this suffix
and automatically create a trivial ``setup.py`` to wrap the single ``.py`` file
as an egg.

In the case of a VCS checkout, you
 should also append ``#egg=project-version``
in order to identify for what package that checkout should be used. You can
append ``@REV`` to the URL's path (before the fragment) to specify a revision.
Additionally, you can also force the VCS being used by prepending the URL with
a certain prefix. Currently available are:

- ``svn+URL`` for Subversion,
- ``git+URL`` for Git, and
- ``hg+URL`` for Mercurial

A more complete example would be:

  ``vcs+proto://host/path@revision#egg=project-version``

Be careful with the version. It should match the one inside the project files.
If you want to disregard the version, you have to omit it both in the
``requires`` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a
temporary folder and run ``setup.py bdist_egg``.

The ``dependency_links`` option takes the form of a list of URL strings. For
example, the below will cause EasyInstall to search the specified page for
eggs or source distributions,
 if the package's dependencies aren't already
installed::

```
  setup(
     ...
     dependency_links = [
        "http://peak.telecommunity.com/snapshots/"
     ],
  )
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their ``install_requires``.

For example, let's say that Project A offers optional PDF and reST support::

```
  setup(
     name="Project-A",


    ...
     extras_require = {
        'PDF':  ["ReportLab>=1.2", "RXP"],
        'reST': ["docutils>=0.3"],
     }
  )
```

As you can see, the ``extras_require`` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points`_ to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```
  setup(
     name="Project-A",
     ...
     entry_points = {
        'console_scripts': [
           'rst2pdf = project_a.tools.pdfgen
 [PDF]',
           'rst2html = project_a.tools.htmlgen',
           # more script entry points ...
        ],
     }
  )
```

Projects can also use another project's extras when specifying dependencies.
For example, if project B needs "project A" with PDF support installed, it
might declare the dependency like this::

```
  setup(
     name="Project-B",
     install_requires = ["Project-A[PDF]"],
     ...
  )
```

This will cause ReportLab to be installed along with project A, if project B is
installed -- even if project A was already installed. In this way, a project
can encapsulate groups of optional "downstream dependencies" under a feature
name, so that packages that depend on it don't have to know what the downstream
dependencies are. If a later version of Project A builds in PDF support and
no longer needs ReportLab, or if it ends up needing other dependencies besides
ReportLab in order to provide PDF support, Project B's setup information
 does
not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to
support a feature, it should keep an empty requirements list for that feature
in its ``extras_require`` argument, so that packages depending on that feature
don't break (due to an invalid feature name). For example, if Project A above
builds in PDF support and no longer needs ReportLab, it could change its
setup to this::

```
  setup(
     name="Project-A",
     ...
     extras_require = {
        'PDF':  [],
        'reST': ["docutils>=0.3"],
     }
  )
```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement
specifier.

Including Data Files
====================

The distutils have traditionally allowed installation of "data files", which
are placed in a platform-specific location. However, the most common use case
for data files distributed with a package is for use *by* the package,

usually
by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your
packages. First, you can simply use the ``include_package_data`` keyword,
e.g.::

```
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages.
The data files must be specified via the distutils' ``MANIFEST.in`` file.
(They can also be tracked by a revision control system, using an appropriate
plugin. See the section below on `Adding Support for Revision Control
Systems`_ for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example,
if you have documentation files in your package directories and want to exclude
them from installation), then you can also use the ``package_data`` keyword,
e.g.::

```
from setuptools import setup, find_packages
setup(

...
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)
```

The ``package_data`` argument is a dictionary that maps from package names to
lists of glob patterns. The globs may include subdirectory names, if the data
files are contained in a subdirectory of the package. For example, if the
package tree looks like this::

```
setup.py
src/
    mypkg/
        __init__.py
        mypkg.txt
        data/
            somefile.dat
```

otherdata.dat

The setuptools setup file might look like this::

```
  from setuptools import setup, find_packages
  setup(
      ...
      packages = find_packages('src'),  # include all packages under src
      package_dir = {'':'src'},   # tell distutils packages are under src

      package_data = {

  # If any package contains *.txt files, include them:
          '': ['*.txt'],
          # And include any *.dat files found in the 'data' subdirectory
          # of the 'mypkg' package, also:
          'mypkg': ['data/*.dat'],
      }
  )
```

Notice that if you list patterns in ``package_data`` under the empty string,
these patterns are used to find files in every package, even ones that also
have their own patterns listed. Thus, in the above example, the ``mypkg.txt``
file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (``/``) as
the path separator, even if you are on Windows. Setuptools automatically
converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in
``setuptools``, it was also added to the Python ``distutils`` package as of
Python 2.4; there is `some documentation for the feature`__
 available on the
python.org website. If using the setuptools-specific ``include_package_data``
argument, files specified by ``package_data`` will *not* be automatically
added to the manifest unless they are listed in the MANIFEST.in file.)

__ http://docs.python.org/dist/node11.html

Sometimes, the ``include_package_data`` or ``package_data`` options alone
aren't sufficient to precisely define what files you want included. For
example, you may want to include package README files in your revision control
system and source distributions, but exclude them from being installed. So,
setuptools offers an ``exclude_package_data`` option as well, that allows you
to do things like this::

```
  from setuptools import setup, find_packages
  setup(
```

```
    ...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'':'src'},   # tell distutils packages are under src

    include_package_data = True,    # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { '': ['README.txt'] },
)
```

The ``exclude_package_data`` option is a dictionary mapping package names to lists of wildcard patterns, just like the ``package_data`` option. And, just as with that option, a key of ``''`` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in ``package_data`` or were included as a result of using ``include_package_data``.

In summary, the three options allow you to:

``include_package_data``
  Accept all data files and directories matched by ``MANIFEST.in``.

``package_data``
  Specify additional patterns to match files and directories that may or may
  not be matched by ``MANIFEST.in`` or found in source control.

``exclude_package_data``
  Specify patterns for data files and directories that should *not* be
  included when a package is installed,
 even if they would otherwise have
  been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run ``setup.py clean --all`` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ``setup.py clean --all``.

Accessing Data Files at Runtime

Typically, existing programs manipulate a package's ``__file__`` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files,

you should use the `Resource
Management API`_ of ``pkg_resources`` to access
them. The ``pkg_resources`` module is distributed as part of setuptools, so if
you're using setuptools to distribute your package, there is no reason not to
use its resource management API. See also `Accessing Package Resources`_ for
a quick example of converting code that uses ``__file__`` to use
``pkg_resources`` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files

The ``distutils`` normally install general "data files" to a platform-specific
location (e.g. ``/usr/share``). This feature intended to be used for things
like documentation, example configuration files, and the like. ``setuptools``
does not install these data files in a separate location, however. They are
bundled inside the egg file or directory, alongside
the Python modules and
packages. The data files can also be accessed using the `Resource Management
API`_, by specifying a ``Requirement`` instead of a package name::

  from pkg_resources import Requirement, resource_filename
  filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")

The above code will obtain the filename of the "sample.conf" file in the data
root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't
actually install data files to some arbitrary location on a user's machine;
this is a feature, not a bug. You can always include a script in your
distribution that extracts and copies your the documentation or data files to
a user-specified location, at their discretion. If you put related data files
in a single directory, you can use ``resource_filename()`` with the directory
name to get a filesystem directory that then can be copied with the ``shutil``
module. (Even if your package
is installed as a zipfile, calling
``resource_filename()`` on a directory will return an actual filesystem
directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your
data files or directories inside one of your packages, rather than using the
distutils' approach. However, if you're updating an existing application, it
may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the ``eager_resources`` argument to ``setup()``, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared
 libraries *other*
than distutils-built C extensions, and those shared libraries use file extensions other than ``.dll``, ``.so``, or ``.dylib``, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the ``native_libs.txt`` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as ``eager_resources``, because they need to be present in the filesystem when he C extensions that link to them are used.

The ``pkg_resources`` runtime for compressed packages will automatically extract *all* C extensions and ``eager_resources`` at the same time, whenever *any* C extension or eager resource is requested via the ``resource_filename()`` API. (C extensions are imported using ``resource_filename()`` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in ``eager_resources`` as well, in which
 case the directory's contents (including subdirectories) will be
extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of ``eager_resources`` being relevant to your project.

Extensible Applications and Frameworks
==========

.. _Entry Points:

Dynamic Discovery of Services and Plugins

``setuptools`` supports creating libraries that "plug in" to extensible
applications and frameworks, by letting you register "entry points" in
 your
project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins
that provide translation for various file types to the blog's output format.
The framework might define an "entry point group" called ``blogtool.parsers``,
and then allow plugins to register entry points for the file extensions they
support.

This would allow people to create distributions that contain one or more
parsers for different file types, and then the blogging tool would be able to
find the parsers at runtime by looking up an entry point for the file
extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it
can register these as entry points in its own setup script, which means it
doesn't have to special-case its built-in formats. They can just be treated
the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application
 or
framework, you'll need to know what entry points or entry point groups are
defined by that application or framework. Then, you can register entry points
in your setup script. Here are a few examples of ways you might register an
``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group,
for our hypothetical blogging tool::

```
  setup(
     # ...
     entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
  )

  setup(
     # ...
     entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
  )

  setup(
     # ...
     entry_points = """
        [blogtool.parsers]
        .rst = some.nested.module:SomeClass.some_classmethod [reST]
     """,
     extras_require = dict(reST = "Docutils>=0.3.5")
```

)

The ``entry_points`` argument to ``setup()`` accepts either a string with ``.ini``-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an ``=`` sign. The value consists of a dotted module name, optionally followed by a ``:`` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to ``pkg_resources.require()``, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the ``pkg_resources`` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their ``ProjectName.egg-info`` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to ``setup()``, in much the same way that ``setuptools`` does for many of the ``setup()`` arguments it adds. See the section below on `Creating distutils Extensions`_ for more details, especially the subsection on `Adding new EGG-INFO Files`_.

"Development Mode"
==========

Under normal circumstances, the ``distutils`` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the ``distutils`` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the ``distutils`` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the ``setup.py develop`` command. It works very similarly to ``setup.py install`` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special ``.egg-link`` file in the deployment directory, that links to your project's source code. And, if your deployment
directory is Python's ``site-packages`` directory, it will also update the ``easy-install.pth`` file to include your project's source code, thereby making it available on ``sys.path`` for all programs using that Python installation.

If you have enabled the ``use_2to3`` flag, then of course the ``.egg-link`` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the ``setup.py develop`` will build Python 3 code under the ``build`` directory, and link there. This means that after doing code changes you will have to run ``setup.py build`` before these changes are picked up by your Python 3 installation.

In addition, the ``develop`` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your ``install_requires`` packages are available on ``sys.path``.

You can deploy the same project to multiple staging areas,
e.g. if you have
multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using ``setup.py develop --uninstall``, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the ``develop`` command; see the section on the `develop`_ command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this::

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following
the quoted part.

Distributing a ``setuptools``-based project
==========

Using ``setuptools``... Without bundling it!

Your users might not have ``setuptools`` installed on their machines,
 or even
if they do, it might not be the right version. Fixing this is easy; just
download `ez_setup.py`_, and put it in the same directory as your ``setup.py``
script. (Be sure to add it to your revision control system, too.) Then add
these two lines to the very top of your setup script, before the script imports
anything from setuptools:

.. code-block:: python

  import ez_setup
  ez_setup.use_setuptools()

That's it. The ``ez_setup`` module will automatically download a matching
version of ``setuptools`` from PyPI, if it isn't present on the target system.
Whenever you install an updated version of setuptools, you should also update
your projects' ``ez_setup.py`` files, so that a matching version gets installed
on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use
``setup.py sdist upload`` or ``setup.py bdist_egg upload`` to upload your
source or egg distributions respectively. Your project's current version must
be registered
 with PyPI first, of course; you can use ``setup.py register`` to
do that. Or you can do it all in one step, e.g. ``setup.py register sdist
bdist_egg upload`` will register the package, build source and egg
distributions, and then upload them both to PyPI, where they'll be easily
found by other projects that depend on them.

(By the way, if you need to distribute a specific version of ``setuptools``,
you can specify the exact version and base download URL as parameters to the
``use_setuptools()`` function. See the function's docstring for details.)

What Your Users Should Know

In general, a setuptools-based project looks just like any distutils-based

project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the
following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy_install``.

Network Access

If your project is using ``ez_setup``, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations

You should inform your users that if they are installing your project to somewhere other than the main ``site-packages`` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you
should list them in your installation
instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using ``easy_install``, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the ``-f`` option of ``easy_install`` to specify the directory to find eggs in. Users who have full network
access can just use ``-f``
with the URL of your download page, and ``easy_install`` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using

a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use ``setup.py develop`` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to
run ``setup.py clean --all`` and delete any obsolete
``.pyc`` or ``.pyo``. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't ``easy_install``! Setuptools currently supports ``bdist_rpm``, ``bdist_wininst``, and ``bdist_dumb`` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils ``install`` command, it should be able to work with ``setuptools``. Some examples of "bdist" formats that this should work with include the ``bdist_nsi`` and ``bdist_msi`` formats for Windows.

However, packaging tools that build binary distributions by running ``setup.py install`` on the
command line or as a subprocess will require
modification to work with setuptools. They should use the ``--single-version-externally-managed`` option to the ``install`` command, combined with the standard ``--root`` or ``--record`` options. See the `install command`_ documentation below for more details. The ``bdist_deb`` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the ``zip_safe`` flag

For some use cases (such as bundling as part of a larger application), Python packages may be run directly from a zip file.
Not all packages, however, are capable of running in compressed form, because they may expect to be able to access

either source code or data files as
normal operating system files. So, ``setuptools`` can install your project
as a zipfile or a directory, and its default choice is determined by the
project's ``zip_safe`` flag.

You can pass a True or False value for the ``zip_safe`` argument to the
``setup()`` function, or you can omit it. If you omit it, the ``bdist_egg``
command will analyze your project's contents to see if it can detect any
conditions that would prevent it from working in a zipfile. It will output
notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the
project unsafe if it contains any C extensions or datafiles whatsoever. This
does *not* mean that the project can't or won't work as a zipfile! It just
means that the ``bdist_egg`` authors aren't yet comfortable asserting that
the project *will* work. If the project contains no C or data files, and does
no ``__file__`` or ``__path__`` introspection
or source code manipulation, then
there is an extremely solid chance the project will work when installed as a
zipfile. (And if the project uses ``pkg_resources`` for all its data file
access, then C extensions and other data files shouldn't be a problem at all.
See the `Accessing Data Files at Runtime`_ section above for more information.)

However, if ``bdist_egg`` can't be *sure* that your package will work, but
you've checked over all the warnings it issued, and you are either satisfied it
will work (or if you want to try it for yourself), then you should set
``zip_safe`` to ``True`` in your ``setup()`` call. If it turns out that it
doesn't work, you can always change it to ``False``, which will force
``setuptools`` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using
EasyInstall to install your package. And, if you want to override for testing
purposes, you can just run ``setup.py
easy_install --zip-ok .`` or ``setup.py
easy_install --always-unzip .`` in your project directory. to install the
package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become
more satisfied with the robustness of the ``pkg_resources`` runtime, the
"zip safety" analysis may become less conservative. However, we strongly
recommend that you determine for yourself whether your project functions
correctly when installed as a zipfile, correct any problems if you can, and
then make an explicit declaration of ``True`` or ``False`` for the ``zip_safe``
flag, so that it will not be necessary for ``bdist_egg`` or ``EasyInstall`` to
try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of
smaller eggs. However, Python does not normally allow the contents of a
package to be retrieved from more than one location.
 "Namespace packages"
are a solution for this problem. When you declare a package to be a namespace
package, it means that the package has no meaningful contents in its
``__init__.py``, and that it is merely a container for modules and subpackages.

The ``pkg_resources`` runtime will then automatically ensure that the contents
of namespace packages that are spread over multiple eggs or directories are
combined into a single "virtual" package.

The ``namespace_packages`` argument to ``setup()`` lets you declare your
project's namespace packages, so that they will be included in your project's
metadata. The argument should list the namespace packages that the egg
participates in. For example, the ZopeInterface project might do this::

```
  setup(
     # ...
     namespace_packages = ['zope']
  )
```

because it contains a ``zope.interface`` package that lives in the ``zope``
namespace package. Similarly, a project for a standalone ``zope.publisher``
would also declare the ``zope``
 namespace package. When these projects are
installed and used, Python will see them both as part of a "virtual" ``zope``
package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's
``zope.app`` package is a namespace package, and in the future PEAK's
``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace
packages' ``__init__.py`` files (and the ``__init__.py`` of any parent
packages), in a normal Python package layout. These ``__init__.py`` files
must contain the line::

```
  __import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that
the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's
``__init__.py``. Even though it may appear to work during development, or when
projects are installed as

``.egg`` files, it will not work when the projects
are installed using "system" packaging tools -- in such cases the
``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of
every project that has contents for the namespace package in question, in
order to ensure that the namespace will be declared regardless of which
project's copy of ``__init__.py`` is loaded first. If the first loaded
``__init__.py`` doesn't declare it, it will never *be* declared, because no
other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~~~~

Setuptools automatically calls ``declare_namespace()`` for you at runtime,
but future versions may *not*. This is because the automatic declaration
feature has some negative side effects, such as needing to import all namespace
packages during the initialization of the ``pkg_resources`` runtime, and also
the need for ``pkg_resources`` to be explicitly imported before
any namespace
packages work at all. In some future releases, you'll be responsible
for including your own declaration lines, and the automatic declaration feature
will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools
will warn you about missing ``declare_namespace()`` calls in your
``__init__.py`` files, and you should correct these as soon as possible
before the compatibility support is removed.
Namespace packages without declaration lines will not work
correctly once a user has upgraded to a later version, so it's important that
you make this change now in order to avoid having your code break in the field.
Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases

When a set of related projects are under development, it may be important to
track finer-grained version increments than you would
normally use for e.g.
"stable" releases. While stable releases might be measured in dotted numbers
with alpha/beta/etc. status codes, development versions of a project often
need to be tracked by revision or build number or even build date. This is
especially true when projects in development need to refer to one another, and
therefore may literally need an up-to-the-minute version of something!
~~~~~~~~~~~~~~~~~~

To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (``--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding ``egg_info`` and the desired options to the command line ahead of the ``sdist`` or ``bdist`` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info`_ command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version`_ for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate`_ command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias`_ command, which would let each package define an alias like ``daily`` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ``setup.py daily`` in each project directory. (And, you could also define sitewide or per-user default versions of the ``daily`` alias, so that projects that didn't define their own would

use the appropriate defaults.)

Generating Source Distributions

``setuptools``
 enhances the distutils' default algorithm for source file
selection with pluggable endpoints for looking up files to include. If you are
using a revision control system, and your source distributions only need to
include files that you're tracking in revision control, use a corresponding
plugin instead of writing a ``MANIFEST.in`` file. See the section below on
`Adding Support for Revision Control Systems`_ for information on plugins.

If you need to include automatically generated files, or files that are kept in
an unsupported revision control system, you'll need to create a ``MANIFEST.in``
file to specify any files that the default file location algorithm doesn't
catch. See the distutils documentation for more information on the format of
the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with
``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you
from these issues and doesn't work the same
 way in any case. Unlike the
distutils, setuptools regenerates the source distribution manifest file
every time you build a source distribution, and it builds it inside the
project's ``.egg-info`` directory, out of the way of your main project
directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source
distribution is so much simpler, its ``sdist`` command omits nearly all of
the options that the distutils' more complex ``sdist`` process requires. For
all practical purposes, you'll probably use only the ``--formats`` option, if
you use any option at all.

Making your package available for EasyInstall

If you use the ``register`` command (``setup.py register``) to register your
package with PyPI, that's most of the battle right there. (See the
`docs for the register command`_ for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If
 you also use the `upload`_ command to upload actual distributions of your
package, that's even better, because EasyInstall will be able to find and

download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the ``register`` command. There are three ``setup()`` arguments that affect EasyInstall:

``url`` and ``download_url``
 These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links

``long_description``
 EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary
 link" if it is a link to a .tar.gz, .tgz, .zip,
.egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or ``#egg=project-version`` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your ``url`` or ``download_url`` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either ``#egg=project`` or ``#egg=project-version`` added to the URL. You should replace ``project`` and ``version`` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use
 the initial part
of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=`` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this::

```
easy_install --editable projectname==dev
```

in order to check out the in-development version of ``projectname``.

Managing "Continuous Releases" Using Subversion

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly
with EasyInstall. First, you should add the following to your project's ``setup.cfg`` file:

.. code-block:: ini

```
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell ``setuptools`` to generate package version numbers like ``1.0a1.dev-r1263``, which will be considered to be an *older* release than ``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg infrastructure (including ``setuptools``, ``pkg_resources`` and EasyInstall) will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the ``tag_build=.dev``, and always use the *last* release as a version number, so that your post-1.0 builds are labelled ``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project
as being a future version
still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ``#egg=projectname-dev`` suffix. This allows users to request EasyInstall to download ``projectname==dev`` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your ``install_requires`` (or other requirements) to include ``==dev``, e.g.:

.. code-block:: python

  install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]

The above example says, "I really want at least this particular development
revision number, but feel free to follow and
 use an ``#egg=OtherProject-dev``
link if you find one". This avoids the need to have actual source or binary
distribution snapshots of in-development code available, just to be able to
depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags
as described in this section, it's a good idea to run ``setup.py develop``
after each Subversion checkin or update, because your project's version number
will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ``develop`` command will
take care of fetching the updated dependencies, building changed extensions,
etc. Be sure to also remind any of your users who check out your project
from Subversion that they need to run ``setup.py develop`` after every update
in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~

When
 you make an official release, creating source or binary distributions,
you will need to override the tag settings from ``setup.cfg``, so that you
don't end up registering versions like ``foobar-0.7a1.dev-r34832``. This is
easy to do if you are developing on the trunk and using tags or branches for
your releases - just make the change to ``setup.cfg`` after branching or
tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the
default version options on the command line, using something like::

  python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (``egg_info -RDb ""``) will override the
configured tag information, before creating source and binary eggs, registering
the project with PyPI, and uploading the files. Thus, these commands will use
the plain version from your ``setup.py``, without adding the Subversion
revision number or build designation
 string.

Of course, if you will be doing this a lot, you may wish to create a personal
alias for this operation, e.g.::
~~~~~~

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above.
See the sections below on the `egg_info`_ and `alias`_ commands for more ideas.

Distributing Extensions compiled with Pyrex

``setuptools`` includes transparent support for building Pyrex extensions, as
long as you define your extensions using ``setuptools.Extension``, *not*
``distutils.Extension``. You must also not import anything from Pyrex in
your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source
of your ``Extension`` objects in the setup script. ``setuptools`` will detect
at build time whether Pyrex is installed or not. If it is, then ``setuptools``
will
use it. If not, then ``setuptools`` will silently change the
``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx``
files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C
code generated by Pyrex, as well as your original ``.pyx`` files. This means
that you will probably want to include current ``.c`` files in your revision
control system, rebuilding them whenever you check changes in for the ``.pyx``
source files. This will ensure that people tracking your project in a revision
control system will be able to build it even if they don't have Pyrex
installed, and that your source releases will be similarly usable with or
without Pyrex.

Command Reference

.. _alias:

``alias`` - Define shortcuts for commonly used commands
==========

Sometimes, you need to use the same commands over and

over, but you can't
necessarily set them as defaults. For example, if you produce both development
snapshot releases and "stable" releases of a project, you may want to put
the distributions in different places, or use different ``egg_info`` tagging
options, etc. In these cases, it doesn't make sense to set the options in
a distutils configuration file, because the values of the options changed based
on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for
an arbitrary string of commands and options, using ``setup.py alias aliasname
expansion``, where aliasname is the name of the new alias, and the remainder of
the command line supplies its expansion. For example, this command defines
a sitewide alias called "daily", that sets various ``egg_info`` tagging
options::

```
setup.py alias --global-config daily egg_info --tag-svn-revision \
    --tag-build=development
```

Once the alias is defined, it can then be used with other setup commands,
e.g.::

```
 setup.py daily bdist_egg       # generate a daily-build .egg file
setup.py daily sdist            # generate a daily-build source distro
setup.py daily sdist bdist_egg  # generate both
```

The above commands are interpreted as if the word ``daily`` were replaced with
``egg_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias *at most once* in a given command
line. This serves two purposes. First, if you accidentally create an alias
loop, it will have no effect; you'll instead get an error message about an
unknown command. Second, it allows you to define an alias for a command, that
uses that command. For example, this (project-local) alias::

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the ``bdist_egg`` command so that it always runs the ``rotate``
command afterwards to delete all but the newest egg file. It doesn't loop
indefinitely on ``bdist_egg`` because the alias is only expanded once when
used.

You
can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The
default is to define or remove a project-specific alias, but you can use any of
the `configuration file options`_ (listed under the `saveopts`_ command, below)
to determine which distutils configuration file an aliases will be added to
(or removed from).

Note that if you omit the "expansion" argument to the ``alias`` command,
you'll get output showing that alias' current definition (and what
configuration file it's defined in). If you omit the alias name as well,
you'll get a listing of all current aliases along with their configuration
file locations.

``bdist_egg`` - Create a Python Egg for the project
==========

This command generates a Python Egg (``.egg`` file) for the project.
Python
Eggs are the preferred binary distribution format for EasyInstall, because they
are cross-platform (for "pure" packages), directly importable, and contain
project metadata including scripts and information about the project's
dependencies. They can be simply downloaded and added to ``sys.path``
directly, or they can be placed in a directory on ``sys.path`` and then
automatically discovered by the egg runtime system.

This command runs the `egg_info`_ command (if it hasn't already run) to update
the project's metadata (``.egg-info``) directory. If you have added any extra
metadata files to the ``.egg-info`` directory, those files will be included in
the new egg file's metadata directory, for use by the egg runtime system or by
any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just
use ``bdist_egg`` and you're done. But there are a few options that may
be occasionally useful:

``--dist-dir=DIR,
-d DIR``
Set the directory where the ``.egg`` file will be placed. If you don't
supply this, then the ``--dist-dir`` setting of the ``bdist`` command
will be used, which is usually a directory named ``dist`` in the project
directory.

``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename
(assuming the egg contains C extensions). This can be used to override
the distutils default platform name with something more meaningful. Keep
in mind, however, that the egg runtime system expects to see eggs with
distutils platform names, so it may ignore or reject eggs with non-standard

platform names. Similarly, the EasyInstall program may ignore them when
searching web pages for download links. However, if you are
cross-compiling or doing some other unusual things, you might find a use
for this option.

``--exclude-source-files``
Don't include any modules' ``.py`` files in the egg,
just compiled Python,
C, and data files. (Note that this doesn't affect any ``.py`` files in the
EGG-INFO directory or its subdirectories, since for example there may be
scripts with a ``.py`` extension which must still be retained.) We don't
recommend that you use this option except for packages that are being
bundled for proprietary end-user applications, or for "embedded" scenarios
where space is at an absolute premium. On the other hand, if your package
is going to be installed and used in compressed form, you might as well
exclude the source because Python's ``traceback`` module doesn't currently
understand how to display zipped source code anyway, or how to deal with
files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there
because they were copied from similar ``bdist`` commands used as an example for
creating this one. They may be useful for
testing and debugging, however,
which is why we kept them:

``--keep-temp, -k``
Keep the contents of the ``--bdist-dir`` tree around after creating the
``.egg`` file.

``--bdist-dir=DIR, -b DIR``
Set the temporary directory for creating the distribution. The entire
contents of this directory are zipped to create the ``.egg`` file, after
running various installation commands to copy the package's modules, data,
and extensions here.

``--skip-build``
Skip doing any "build" commands; just go straight to the
install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"
==

This command allows you to deploy your project's source for use in one or more
"staging areas" where it will be available for importing. This deployment is
done in such a way that changes to the project source are immediately available

in the staging area(s), without needing to run
a build or install step after
each change.

The ``develop`` command works by creating an ``.egg-link`` file (named for the project) in the given staging area. If the staging area is Python's ``site-packages`` directory, it also updates an ``easy-install.pth`` file so that the project is on ``sys.path`` by default for all programs run using that Python installation.

The ``develop`` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on ``sys.path`` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the ``develop`` command invokes the ``build_ext -i`` command to ensure any C extensions in the project have been built and are up-to-date, and the ``egg_info`` command to ensure the project's metadata is updated (so that the runtime and
wrappers know what the project's dependencies
are). If you make any changes to the project's setup script or C extensions, you should rerun the ``develop`` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning ``develop``, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the ``develop`` or ``test`` commands to keep the distribution updated.

Here are some of the options that the ``develop`` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use ``--exclude-scripts`` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the ``develop`` command,
if you need finer control
over the installation options for dependencies.

``--uninstall, -u``
Un-deploy the current project. You may use the ``--install-dir`` or ``-d`` option to designate the staging area. The created ``.egg-link`` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from ``easy-install.pth`` if the staging area is Python's ``site-packages`` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing

script wrappers in the first place, if you use the ``--exclude-scripts``
(aka ``-x``) option when you run ``develop`` to deploy the project.

``--multi-version, -m``
"Multi-version" mode. Specifying this option prevents ``develop`` from
adding an ``easy-install.pth`` entry for
the project(s) being deployed, and
if an entry for any version of a project already exists, the entry will be
removed upon successful deployment. In multi-version mode, no specific
version of the package is available for importing, unless you use
``pkg_resources.require()`` to put it on ``sys.path``, or you are running
a wrapper script generated by ``setuptools`` or EasyInstall. (In which
case the wrapper script calls ``require()`` for you.)

Note that if you install to a directory other than ``site-packages``,
this option is automatically in effect, because ``.pth`` files can only be
used in ``site-packages`` (at least in Python 2.3 and 2.4). So, if you use
the ``--install-dir`` or ``-d`` option (or they are set via configuration
file(s)) your project and its dependencies will be deployed in multi-
version mode.

``--install-dir=DIR, -d DIR``
Set the installation directory (staging area). If this option is not
directly specified
on the command line or in a distutils configuration
file, the distutils default installation location is used. Normally, this
will be the ``site-packages`` directory, but if you are using distutils
configuration files, setting things like ``prefix`` or ``install_lib``,
then those settings are taken into account when computing the default
staging area.

``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option
(via the command line or a configuration file), but you *have* supplied
an ``--install-dir`` (via command line or config file), then this option
defaults to the same directory, so that the scripts will be able to find
their associated package installation. Otherwise, this setting defaults
to the location where the distutils would normally install scripts, taking
any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This
is useful if you don't want to disturb
existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they
are already present in another directory on ``sys.path``. By default, if

a requirement can be met using a distribution that is already available in
a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated ``.egg-link`` file to use a specified relative path
to the source directory. This can be useful in circumstances where your
installation directory is being shared by code running under multiple
platforms (e.g. Mac and Windows) which have different absolute locations
for the code under development, but the same *relative* locations with
respect to the installation directory. If you use this option when
installing, you must supply the same relative path when uninstalling.

In addition to the above options,
the ``develop`` command also accepts all of
the same options accepted by ``easy_install``. If you've configured any
``easy_install`` settings in your ``setup.cfg`` (or other distutils config
files), the ``develop`` command will use them as defaults, unless you override
them in a ``[develop]`` section or on the command line.

``easy_install`` - Find and install packages
==========

This command runs the `EasyInstall tool
<easy_install.html>`_ for you. It is exactly
equivalent to running the ``easy_install`` command. All command line arguments
following this command are consumed and not processed further by the distutils,
so this must be the last command listed on the command line. Please see
the EasyInstall documentation for the options reference and usage examples.
Normally, there is no reason to use this command via the command line, as you
can just use ``easy_install`` directly. It's only listed here so that you know
it's a distutils command,
which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your ``setup.cfg`` or other distutils config
files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
==========

This command performs two operations: it updates a project's ``.egg-info``
metadata directory (used by the ``bdist_egg``, ``develop``, and ``test``
commands), and it allows you to temporarily change a project's version string,

to support "daily builds" or "snapshot" releases. It is run automatically by
the ``sdist``, ``bdist_egg``, ``develop``, ``register``, and ``test`` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the``.egg-info/SOURCES.txt``
manifest file, which is used when you are building source
 distributions.)

In addition to writing the core egg metadata defined by ``setuptools`` and
required by ``pkg_resources``, this command can be extended to write other
metadata files as well, by defining entry points in the ``egg_info.writers``
group. See the section on `Adding new EGG-INFO Files`_ below for more details.
Note that using additional metadata writers may require you to include a
``setup_requires`` argument to ``setup()`` in order to ensure that the desired
writers are available on ``sys.path``.

Release Tagging Options

The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be
added in the following order:

``--tag-build=NAME, -b NAME``
  Append NAME to the project's version string. Due to the way setuptools
  processes "pre-release" version suffixes beginning with the
 letters "a"
  through "e" (like "alpha", "beta", and "candidate"), you will usually want
  to use a tag like ".build" or ".dev", as this will cause the version number
  to be considered *lower* than the project's default version. (If you
  want to make the version number *higher* than the default version, you can
  always leave off --tag-build and then use one or both of the following
  options.)

  If you have a default build tag set in your ``setup.cfg``, you can suppress
  it on the command line using ``-b ""`` or ``--tag-build=""`` as an argument
  to the ``egg_info`` command.

``--tag-svn-revision, -r``
  If the current directory is a Subversion checkout (i.e. has a ``.svn``
  subdirectory, this appends a string of the form "-rNNNN" to the project's
  version string, where NNNN is the revision number of the most recent
  modification to the current directory, as obtained from the ``svn info``
  command.

  If the current directory is not a Subversion

checkout, the command will
look for a ``PKG-INFO`` file instead, and try to find the revision number
from that, by looking for a "-rNNNN" string at the end of the version
number. (This is so that building a package from a source distribution of
a Subversion snapshot will produce a binary with the correct version
number.)

If there is no ``PKG-INFO`` file, or the version number contained therein
does not end with ``-r`` and a number, then ``-r0`` is used.

``--no-svn-revision, -R``
Don't include the Subversion revision in the version number. This option
is included so you can override a default setting put in ``setup.cfg``.

``--tag-date, -d``
Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the
project's version number.

``--no-date, -D``
Don't include a date stamp in the version number. This option is included
so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version
number used for source and
binary distributions of your project, you should first make sure that you know
how the resulting version numbers will be interpreted by automated tools
like EasyInstall. See the section above on `Specifying Your Project's
Version`_ for an explanation of pre- and post-release tags, as well as tips on
how to choose and verify a versioning scheme for your your project.)

For advanced uses, there is one other option that can be set, to change the
location of the project's ``.egg-info`` directory. Commands that need to find
the project's source directory or metadata should get it from this setting:

Other ``egg_info`` Options

``--egg-base=SOURCEDIR, -e SOURCEDIR``
Specify the directory that should contain the .egg-info directory. This
should normally be the root of your project's source tree (which is not
necessarily the same as your project directory; some projects use a ``src``
or ``lib`` subdirectory as the source
root). You should not normally need
to specify this directory, as it is normally determined from the
``package_dir`` argument to the ``setup()`` function, if any. If there is
no ``package_dir`` set, this option defaults to the current directory.

``egg_info`` Examples

Creating a dated "nightly build" snapshot egg::

```
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
```

Creating and uploading a release with no version tags, even if some default
tags are specified in ``setup.cfg``::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

(Notice that ``egg_info`` must always appear on the command line *before* any
commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run ``easy_install`` or old-style installation
==========

The setuptools ``install`` command is basically a shortcut to run the
``easy_install`` command on the current
project. However, for convenience
in creating "system packages" of setuptools-based projects, you can also
use this option:

``--single-version-externally-managed``
This boolean option tells the ``install`` command to perform an "old style"
installation, with the addition of an ``.egg-info`` directory so that the
installed project will still have its metadata available and operate
normally. If you use this option, you *must* also specify the ``--root``
or ``--record`` options (or both), because otherwise you will have no way
to identify and remove the installed files.

This option is automatically in effect when ``install`` is invoked by another
distutils command, so that commands like ``bdist_wininst`` and ``bdist_rpm``
will create system packages of eggs. It is also automatically in effect if
you specify the ``--root`` option.

``install_egg_info`` - Install an ``.egg-info`` directory in ``site-packages``
==========

Setuptools

runs this command as part of ``install`` operations that use the
``--single-version-externally-managed`` options. You should not invoke it
directly; it is documented here for completeness and so that distutils
extensions such as system package builders can make use of it. This command
has only one option:

``--install-dir=DIR, -d DIR``
  The parent directory where the ``.egg-info`` directory will be placed.
  Defaults to the same as the ``--install-dir`` option specified for the
  ``install_lib`` command, which is usually the system ``site-packages``
  directory.

This command assumes that the ``egg_info`` command has been given valid options
via the command line or ``setup.cfg``, as it will invoke the ``egg_info``
command and use its options to locate the project's source ``.egg-info``
directory.

.. _rotate:

``rotate`` - Delete outdated distribution files
==========

As you develop new versions
of your project, your distribution (``dist``)
directory will gradually fill up with older source and/or binary distribution
files. The ``rotate`` command lets you automatically clean these up, keeping
only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
  Comma-separated list of glob patterns to match. This option is *required*.
  The project name and ``-*`` is prepended to the supplied patterns, in order
  to match only distributions belonging to the current project (in case you
  have a shared distribution directory for multiple projects). Typically,
  you will use a glob pattern like ``.zip`` or ``.egg`` to match files of
  the specified type. Note that each supplied pattern is treated as a
  distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
  Number of matching distributions to keep. For each group of files
  identified by a pattern specified with the ``--match``
 option, delete all
  but the COUNT most-recently-modified files in that group. This option is
  required.

``--dist-dir=DIR, -d DIR``
  Directory where the distributions are. This defaults to the value of the
  ``bdist`` command's ``--dist-dir`` option, which will usually be the

project's ``dist`` subdirectory.

Example 1: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

```
setup.py rotate --match=.tar.gz --keep=3
```

Example 2: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

```
setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```

.. _saveopts:

``saveopts`` - Save used options to a configuration file
==

Finding and editing ``distutils`` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form
to the proper configuration file format. You can avoid these hassles by using the ``saveopts`` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ``mingw32`` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the ``install`` command)::

```
setup.py build --compiler=mingw32 saveopts
```

The ``saveopts`` command saves all options for every command specified on the command line to the project's local ``setup.cfg`` file, unless you use one of the `configuration file options`_ to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration::

```
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the ``saveopts`` command on the command line; it will still save all the options specified for all commands. For
example, this is another valid way to spell the last example::

```
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where ``saveopts`` is placed on the command line.

Configuration File Options

Normally, settings such as options and aliases are saved to the project's
local ``setup.cfg`` file. But you can override this and save them to the
global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
  Save settings to the global ``distutils.cfg`` file inside the ``distutils``
  package directory. You must have write access to that directory to use
  this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
  Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or
  ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option
  with ``-g`` or ``-f``.

``--filename=FILENAME,
 -f FILENAME``
  Save settings to the specified configuration file to use. You can't
  combine this option with ``-g`` or ``-u``. Note that if you specify a
  non-standard filename, the ``distutils`` and ``setuptools`` will not
  use the file's contents. This option is mainly included for use in
  testing.

These options are used by other ``setuptools`` commands that modify
configuration files, such as the `alias`_ and `setopt`_ commands.

.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file
==========

This command is mainly for use by scripts, but it can also be used as a quick
and dirty way to change a distutils configuration option without having to
remember what file the options are in and then open an editor.

Example 1. Set the default C compiler to ``mingw32`` (using long option
names)::

  setup.py setopt --command=build --option=compiler --set-value=mingw32

**Example
 2**. Remove any setting for the distutils default package
installation directory (short option names)::

  setup.py setopt -c install -o install_lib -r

Options for the ``setopt`` command:

``--command=COMMAND, -c COMMAND``
  Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
  The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
  The value to set the option to. Not needed if ``-r`` or ``--remove`` is
  set.

``--remove, -r``
  Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file
options`_ (listed under the `saveopts`_ command, above) to determine which
distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite
===

When doing test-driven development, or running automated builds that need
testing
 before they are deployed for downloading or use, it's often useful
to be able to run a project's unit tests without actually deploying the project
anywhere, even using the ``develop`` command. The ``test`` command runs a
project's unit tests without actually deploying it, by temporarily putting the
project's source on ``sys.path``, after first running ``build_ext -i`` and
``egg_info`` to ensure that any C extensions and project metadata are
up-to-date.

To use this command, your project's tests must be wrapped in a ``unittest``
test suite by either a function, a ``TestCase`` class or method, or a module
or package containing ``TestCase`` classes. If the named suite is a module,
and the module has an ``additional_tests()`` function, it is called and the
result (which must be a ``unittest.TestSuite``) is added to the tests to be
run. If the named suite is a package, any submodules and subpackages are
recursively added to the overall test suite. (Note: if your project specifies
a
 ``test_loader``, the rules for processing the chosen ``test_suite`` may
differ; see the `test_loader`_ documentation for more details.)

Note that many test systems including ``doctest`` support wrapping their
non-``unittest`` tests in ``TestSuite`` objects. So, if you are using a test
package that does not support this, we suggest you encourage its developers to
implement test suite support, as this is a convenient and standard way to
aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the ``unittest``
package's text test runner, but you can get the "quiet" mode (just dots) if
you supply the ``-q`` or ``--quiet`` option, either as a global option to
the setup script (e.g. ``setup.py -q test``) or as an option for the ``test``
command itself (e.g. ``setup.py test -q``). There is one other option
available:

``--test-suite=NAME, -s NAME``
  Specify the test suite (or module, class, or method) to be run
  (e.g.
 ``some_module.test_suite``). The default for this option can be
  set by giving a ``test_suite`` argument to the ``setup()`` function, e.g.::

      setup(
          # ...
          test_suite = "my_package.tests.test_all"
)

  If you did not set a ``test_suite`` in your ``setup()`` call, and do not
  provide a ``--test-suite`` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI
===

The ``upload`` command is implemented and `documented
<https://docs.python.org/3.1/distutils/uploading.html>`_
in distutils.

Setuptools augments the ``upload`` command with support
for `keyring <https://pypi.python.org/pypi/keyring>`_,
allowing the password to be stored in a secure
location and not in plaintext in the .pypirc file. To use
keyring, first install keyring and set the password for
the relevant repository, e.g.::

  python -m keyring set <repository> <username>
   Password for '<username>' in '<repository>': ********

Then, in .pypirc, set the repository configuration as normal,

but omit the password. Thereafter, uploads will use the
password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI
==

PyPI now supports uploading project documentation to the dedicated URL
https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a
documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version
must already be registered with PyPI, using the distutils ``register``
command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the
subdirectory ``docs``, e.g.::

```
 Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
|   |-- build
|   |
`-- html
|   |   |   |-- index.html
|   |   |   `-- tips_tricks.html
|   |-- conf.py
|   |-- index.txt
|   `-- tips_tricks.txt
```

You can simply pass the documentation directory path to the ``upload_docs``
command::

```
  python setup.py upload_docs --upload-dir=docs/build/html
```

If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the
``build_sphinx`` command to generate uploadable documentation.
For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_
must be installed in the same environment as distribute.

As with other ``setuptools``-based commands, you can define useful

defaults in the ``setup.cfg`` of your Python project, e.g.:

.. code-block:: ini

  [upload_docs]
  upload-dir = docs/build/html

The ``upload_docs`` command has the following options:

``--upload-dir``
  The directory to be uploaded to the repository.

``--show-response``
  Display the full response text from server; this is useful for debugging
  PyPI problems.

``--repository=URL,
 -r URL``
  The URL of the repository to upload to. Defaults to
  https://pypi.python.org/pypi (i.e., the main PyPI installation).

Extending and Reusing Setuptools

Creating ``distutils`` Extensions
==========

It can be hard to add new commands or setup arguments to the distutils. But
the ``setuptools`` package makes it a bit easier, by allowing you to distribute
a distutils extension as a separate project, and then have projects that need
the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new
commands and ``setup()`` arguments just by defining "entry points". These
are mappings from command or argument names to a specification of where to
import a handler from. (See the section on `Dynamic Discovery of Services and
Plugins`_ above for some more background on entry points.)

Adding Commands

You
 can add new ``setup`` commands by defining entry points in the
``distutils.commands`` group. For example, if you wanted to add a ``foo``
command, you might add something like this to your distutils extension

project's setup script::

```
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some_module`` is a ``setuptools.Command`` subclass.)

Once a project containing such entry points has been activated on ``sys.path``, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any ``setuptools``-based setup scripts. It is not necessary to use the ``--command-packages`` option or to monkeypatch the ``distutils.command`` package to install your commands; ``setuptools`` automatically adds a wrapper to the distutils to search for entry
points in the active distributions on ``sys.path``. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

Adding ``setup()`` Arguments

Sometimes, your commands may need additional arguments to the ``setup()`` call. You can enable this by defining entry points in the ``distutils.setup_keywords`` group. For example, if you wanted a ``setup()`` argument called ``bar_baz``, you might add something like this to your distutils extension project's setup script::

```
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called

to validate the ``setup()`` argument, if it's supplied.
 The ``Distribution``
object will have the initial value of the attribute set to ``None``, and the
validation function will only be called if the ``setup()`` call sets it to
a non-None value. Here's an example validation function::

```
  def assert_bool(dist, attr, value):
      """Verify that value is True, False, 0, or 1"""
      if bool(value) != value:
          raise DistutilsSetupError(
              "%r must be a boolean value (got %r)" % (attr,value)
          )
```

Your function should accept three arguments: the ``Distribution`` object,
the attribute name, and the attribute value. It should raise a
``DistutilsSetupError`` (from the ``distutils.errors`` module) if the argument
is invalid. Remember, your function will only be called with non-None values,
and the default value of arguments defined this way is always None. So, your
commands should always be prepared for the possibility that the attribute will
be ``None`` when they access it later.

If more than
 one active distribution defines an entry point for the same
``setup()`` argument, *all* of them will be called. This allows multiple
distutils extensions to define a common argument, as long as they agree on
what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch
the distutils ``Distribution`` class in order to add your arguments; it is
sufficient to define the entry points in your extension, as long as any setup
script using your extension lists your project in its ``setup_requires``
argument.

Adding new EGG-INFO Files

Some extensible applications or frameworks may want to allow third parties to
develop plugins with application or framework-specific metadata included in
the plugins' EGG-INFO directory, for easy access via the ``pkg_resources``
metadata API. The easiest way to allow this is to create a distutils extension
to be used from the plugin projects' setup scripts (via ``setup_requires``)
that
 defines a new setup keyword, and then uses that data to write an EGG-INFO
file when the ``egg_info`` command is run.

The ``egg_info`` command looks for extension points in an ``egg_info.writers``
group, and calls them to write the files. Here's a simple example of a

distutils extension defining a setup argument ``foo_bar``, which is a list of lines that will be written to ``foo_bar.txt`` in the EGG-INFO directory of any project that uses the argument::

```
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes
it to
a file. Here's what the writer utility looks like::

```
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking three arguments: a ``egg_info`` command instance, the basename of the file to write (e.g. ``foo_bar.txt``), and the actual full filename that should be written to.

In general, writer functions should honor the command object's ``dry_run`` setting when writing files, and use the ``distutils.log`` object to do any console output. The easiest way to conform to this requirement is to use the ``cmd`` object's ``write_file()``, ``delete_file()``, and ``write_or_delete_file()`` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding
Support for Revision Control Systems

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for ``setuptools`` to find files tracked
by another revision control system, you can do so by adding an entry point to
the ``setuptools.file_finders`` group. The entry point should be a function
accepting a single directory name, and should yield all the filenames within
that directory (and any subdirectories thereof) that are under revision
control.

For example, if you were going to create a plugin for a revision control system
called "foobar", you would write a function something like this:

.. code-block:: python

  def find_files_for_foobar(dirname):
      # loop to yield paths that start with `dirname`

And you would register it in a setup script using something like this::

  entry_points = {
     "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
     ]
  }

Then, anyone who wants to use your plugin can simply install it, and their
local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that
simply use the other source control system, or to specify the plugins in
``setup_requires``. When you create a source distribution with the ``sdist``
command, setuptools automatically records what files were found in the
``SOURCES.txt`` file. That way, recipients of source distributions don't need
to have revision control at all. However, if someone is working on a package
by checking out with that system, they will need the same plugin(s) that the
original author is using.

A few important points for
 writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the
 passed-in directory name. Absolute paths are NOT allowed, nor are relative
 paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name,
 meaning the current directory. You MUST NOT convert this to a dot; just

yield relative paths. So, yielding a subdirectory named ``some/dir`` under
the current directory should NOT be rendered as ``./some/dir`` or
``/somewhere/some/dir``, but *always* as simply ``some/dir``

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully
with the absence of needed programs (i.e., ones belonging to the revision
control system itself. It *may*, however, use ``distutils.log.warn()`` to
inform the user of the missing program(s).

Subclassing ``Command``

Sorry, this section isn't written yet, and
neither is a lot of what's below
this point.

XXX

Reusing ``setuptools`` Code
==========

``ez_setup``

XXX

``setuptools.archive_util``

XXX

``setuptools.sandbox``

XXX

``setuptools.package_index``

XXX

Mailing List and Bug Tracker

==========

Please use the `distutils-sig mailing list`_ for questions and discussion about
setuptools, and the `setuptools bug tracker`_ ONLY for issues you have
confirmed via the list are actual bugs, and which you have reduced to a minimal
set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/docs/setuptools.txt

1.493 iproute 4.19.0

1.493.1 Available under license :

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Version 4 and are acknowledged as authors of this
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4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features

in sntp

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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
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18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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1.504 libfastjson 0.99.8-r0

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1.505 ipmi-tool 1.8.11

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1.508 tftp-hpa 0.49

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```

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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 0.49
Release: 1

```
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine.  This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package provides the
server
 for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
```

```
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
```

- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun 21 2002
Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to
tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>

- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin
 Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue Jan
  4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

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* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c
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* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.c
*
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Found in path(s):
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.h
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.c
* /tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/misc.c

1.509 libasyncns 0.8

1.509.1 Available under license :

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1.510 syslog-ng 3.16.1

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1.514 libssh2 0.18

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1.516 tftp-hpa 1.9.2

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* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/common/tftpsubs.c
*
 /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/main.c
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/tftp.c
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* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/recvfrom.c
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/recvfrom.h
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* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/common/tftpsubs.h
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* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/remap.h
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/misc.c
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/remap.c
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.\"-- */

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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package
 provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}

```
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
```

- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

*
Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
-
 update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug
 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

*
 Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

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* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp.spec.in

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1.518 pkix-ssh 12.1

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 *
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 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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1.520 openssh 8.0-p1

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
```

```
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*    See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
```

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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This option is useful when you wish to copy part of the code of the
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The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
 for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
 for his LIRC infrared handler

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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,
 the module unloading problems, ...

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
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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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*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/
```

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1.524 python 3.8.6

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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*/

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* /multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c
* /multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.h

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1.527 glib 2.60.4

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.528 libarchive 3.4.3

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  libarchive/archive_read_support_filter_compress.c
  libarchive/archive_write_add_filter_compress.c
  libarchive/mtree.5

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  libarchive/archive_blake2_impl.h
  libarchive/archive_blake2s_ref.c
  libarchive/archive_blake2sp_ref.c

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seems to be an unavoidable mess.

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1.529 tftp-hpa 5.2

1.529.1 Available under license :

No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides
the
server for TFTP, which allows users to transfer files to and from a

```
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*
```

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun
21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15

- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update
 to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000
 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>

- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue
Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

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.\"
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.\"
.\"-- */

Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
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Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
*
 /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c
No license file was found, but licenses were detected in source scan.

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.\"
.\"-- */

Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
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*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h
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*/
```

Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/extern.h
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h
No license file was found, but licenses were detected in source scan.

```
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*   http://www.openbsd.org/.
*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
No license file was found, but licenses were detected in source scan.

```
/* -*- c -*- ------------------------------------------------------------ *
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*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/config.h
No license file was found, but licenses were detected in source scan.

```
/* ---------------------------------------------------------------------- *
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*
*   This program is free software available under the same license
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*   http://www.openbsd.org/.
*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c

No license file was found, but licenses were detected in source scan.

```
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* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

Found
 in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD

```
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine.  This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package
 provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :
```

```
%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32
```

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

*
 Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
-
 update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)

- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug
 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

*
 Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec.in

1.530 rng-tools 5

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1.532 libconfig 1.5

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@c
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them, as well as a reference
directing the user to the copy of this License. Also, you must do one
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@sp 1
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@enumerate

a

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

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That's all there is to it!

1.533 sg3-utils 1.37-12.el7

1.533.1 Available under license :

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Douglas Gilbert
10th April 2012

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1.534 mini-xml 2.6

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1.535 python-setuptools 40.8.0

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1.536 libfastjson 0.99.8

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1.537 sysklogd 1.4.1

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1.538 time 1.9

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1.541 kerberos 1.13.2-12.el7_2

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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
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.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/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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1.548 openssl 1.0.1e-51.el7_2.7

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1.550 json-c 0.11-4.el7_0

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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
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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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that version instead if you wish.) Do not make any other change in
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that copy, so the ordinary GNU General Public License applies to all
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 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 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
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modification of the work for the customer's own use and reverse
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of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever

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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
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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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1.552 libnl3 3.2.21-10.el7

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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
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library

creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
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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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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino
<jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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 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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1.554 visual-studio-runtime 14.00.24210.0

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1.562 curl 7.43.0

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==============

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1.566 curl 7.54.0

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1.567 open-ldap 2.4.57

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of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
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1.573 shared-mime-info 1.1

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1.574 util-linux 2.23.2-26.el7

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Public License instead of this License.
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System

```
-------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

   Device Boot      Start         End      Blocks   Id  System
__ts_dev__1            2048        4095        1024   83  Linux
-------------------

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023
 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

   Device Boot      Start         End      Blocks   Id  System
__ts_dev__1            2048        4095        1024   83  Linux
__ts_dev__2            4096       20479        8192   a5  FreeBSD
-------------------

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.


Command (m for help):

BSD disklabel command (m for help):
```

4 partitions:
start end size fstype [fsize bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0
16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
---

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap
6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):

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1.575 acl 2.2.52

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library
into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse

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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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(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
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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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1.583 pciutils 3.6.2

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1.584 tdb 1.44.3

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#
This is a Makefile stub which handles the creation of BSD shared
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#
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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===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
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+   trivial database library - standalone version

-   trivial database library - private includes
-
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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1.586 pcre 8.44

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1.587 netbsd-resolv 2.17-196.el7_4.2

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1.588 netkit-telnet 0.17

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1.589 libxml 2.9.7

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1.590 pciutils 3.6.2-r0

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1.592 talloc 2.1.14

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Samba Unix SMB/CIFS implementation.

C utilities for the pytalloc test suite.
Provides the "_test_pytalloc" Python module.

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*
* $Id: tapdev.c,v 1.8 2006/06/07 08:39:58 adam Exp $
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/**
\defgroup pt Protothreads

Protothreads are a type of lightweight stackless threads designed for
severly memory constrained systems such as deeply embedded systems or
sensor network nodes. Protothreads provides linear code execution for
event-driven systems implemented in C. Protothreads can be used with
or without an RTOS.

Protothreads are a extremely lightweight, stackless type of threads
that provides a blocking context on top of an event-driven system,
without the overhead of per-thread stacks. The purpose of protothreads
is to implement sequential flow of control without complex state
machines or full multi-threading. Protothreads provides conditional
blocking inside C functions.

The advantage of protothreads over a purely event-driven approach is
that protothreads provides a sequential code structure that allows for
blocking functions. In purely event-driven systems, blocking must be
implemented by manually

breaking the function into two pieces - one
for the piece of code before the blocking call and one for the code
after the blocking call. This makes it hard to use control structures
such as if() conditionals and while() loops.

The advantage of protothreads over ordinary threads is that a
protothread do not require a separate stack. In memory constrained
systems, the overhead of allocating multiple stacks can consume large
amounts of the available memory. In contrast, each protothread only
requires between two and twelve bytes of state, depending on the
architecture.

\note Because protothreads do not save the stack context across a
blocking call, local variables are not preserved when the
protothread blocks. This means that local variables should be used
with utmost care - if in doubt, do not use local variables inside a
protothread!

Main features:

- No machine specific code - the protothreads library is pure C

- Does not use error-prone functions such as
longjmp()

- Very small RAM overhead - only two bytes per protothread

- Can be used with or without an OS

- Provides blocking wait without full multi-threading or
stack-switching

Examples applications:

- Memory constrained systems

- Event-driven protocol stacks

- Deeply embedded systems

- Sensor network nodes

The protothreads API consists of four basic operations:
initialization: PT_INIT(), execution: PT_BEGIN(), conditional
blocking: PT_WAIT_UNTIL() and exit: PT_END(). On top of these, two
convenience functions are built: reversed condition blocking:
PT_WAIT_WHILE() and protothread blocking: PT_WAIT_THREAD().

\sa \ref pt "Protothreads API documentation"

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\section authors Authors

The protothreads library was written by Adam Dunkels <adam@sics.se> with
support from Oliver Schmidt <ol.sc@web.de>.

\section pt-desc Protothreads

Protothreads are a extremely lightweight, stackless threads that provides a blocking context on top of an event-driven system, without the overhead of per-thread stacks. The purpose of protothreads is to implement sequential flow of control without using complex state machines or full multi-threading. Protothreads provides conditional blocking inside a C function.

In memory constrained systems, such as deeply embedded systems, traditional multi-threading may have a too large memory overhead. In traditional multi-threading, each thread requires its own stack, that typically is over-provisioned. The stacks may use large parts of the available memory.

The main advantage of protothreads over ordinary threads is that protothreads are very lightweight: a protothread does not require its own stack. Rather, all protothreads run on the same stack and context switching is done by stack rewinding. This is advantageous
in memory
constrained systems, where a stack for a thread might use a large part of the available memory. A protothread only requires only two bytes of memory per protothread. Moreover, protothreads are implemented in pure C and do not require any machine-specific assembler code.

A protothread runs within a single C function and cannot span over other functions. A protothread may call normal C functions, but cannot block inside a called function. Blocking inside nested function calls is instead made by spawning a separate protothread for each potentially blocking function. The advantage of this approach is that blocking is explicit: the programmer knows exactly which functions that block that which functions the never blocks.

Protothreads are similar to asymmetric co-routines. The main difference is that co-routines uses a separate stack for each

co-routine, whereas protothreads are stackless. The most similar mechanism to protothreads are Python generators. These are also stackless
constructs, but have a different purpose. Protothreads provides blocking contexts inside a C function, whereas Python generators provide multiple exit points from a generator function.

\section pt-autovars Local variables

\note
Because protothreads do not save the stack context across a blocking call, local variables are not preserved when the protothread blocks. This means that local variables should be used with utmost care - if in doubt, do not use local variables inside a protothread!

\section pt-scheduling Scheduling

A protothread is driven by repeated calls to the function in which the protothread is running. Each time the function is called, the protothread will run until it blocks or exits. Thus the scheduling of protothreads is done by the application that uses protothreads.

\section pt-impl Implementation

Protothreads are implemented using \ref lc "local continuations". A local continuation represents the current state of execution at a particular place in the program,
but does not provide any call history
or local variables. A local continuation can be set in a specific function to capture the state of the function. After a local continuation has been set can be resumed in order to restore the state of the function at the point where the local continuation was set.

Local continuations can be implemented in a variety of ways:

-# by using machine specific assembler code,
-# by using standard C constructs, or
-# by using compiler extensions.

The first way works by saving and restoring the processor state, except for stack pointers, and requires between 16 and 32 bytes of memory per protothread. The exact amount of memory required depends on the architecture.

The standard C implementation requires only two bytes of state per protothread and utilizes the C switch() statement in a non-obvious way that is similar to Duff's device. This implementation does, however,

impose a slight restriction to the code that uses protothreads in that
the
 code cannot use switch() statements itself.

Certain compilers has C extensions that can be used to implement
protothreads. GCC supports label pointers that can be used for this
purpose. With this implementation, protothreads require 4 bytes of RAM
per protothread.

@{

*/

/** @} */

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* $Id: uipopt.h,v 1.4 2006/06/12 08:00:31 adam Exp $
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* Author: Adam Dunkels <adam@sics.se>

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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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* Author: Adam Dunkels <adam@sics.se>
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* Author: Adam Dunkels <adam@sics.se>
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* Author: Adam Dunkels <adam@sics.se>
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1.598 keypoint-pngencoder 1.0.12

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1.599 libdevmapper 2.02.97-r4.0

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1.601 cjson 3.6-r0

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a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free 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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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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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of
the Library
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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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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
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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the 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.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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1.608 usbutils 010-r0

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/** @mainpage

<h1> TinyXML </h1>

TinyXML is a simple, small, C++ XML parser that can be easily
integrated into other programs.

<h2> What it does. </h2>

In brief, TinyXML parses an XML document, and builds from that a
Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create
your own document markups. Where HTML does a very good job of marking
documents for browsers, XML allows you to define any kind of document
markup, for example a document that describes a "to do" list for an
organizer application. XML is a very structured and convenient format.
All those random file formats created to store application data can
all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to
read spec is at
http://www.w3.org/TR/2004/REC-xml-20040204/.
An intro to XML
(that I really like) can be found at
http://skew.org/xml/tutorial.

There are different ways to access and interact with XML data.
TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed
into a C++ objects that can be browsed and manipulated, and then
written to disk or another output stream. You can also construct an XML document
from scratch with C++ objects and write this to disk or another output
stream.

TinyXML is designed to be easy and fast to learn. It is two headers
and four cpp files. Simply add these to your project and off you go.
There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license,
so you can use it in open source or commercial code. The details
of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and
compliant XML output. TinyXML should compile on
any reasonably C++
compliant system. It does not rely on exceptions or RTTI. It can be
compiled with or without STL support. TinyXML fully supports
the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs
(eXtensible Stylesheet Language.) There are other parsers out there
(check out www.sourceforge.org, search for XML) that are much more fully
featured. But they are also much bigger, take longer to set up in
your project, have a higher learning curve, and often have a more
restrictive license. If you are working with browsers or have more
complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

@verbatim
 <!DOCTYPE Archiv [
  <!ELEMENT Comment (#PCDATA)>
 ]>
@endverbatim

because TinyXML sees this as a !DOCTYPE node with an illegally
embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For
 the impatient, here is a tutorial to get you going. A great way to get started,
but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find
bugs, please file a bug report on the sourceforge web site
(www.sourceforge.net/projects/tinyxml). We'll get them straightened
out as soon as possible.

There are some areas of improvement; please check sourceforge if you are
interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

 TinyXPath (http://tinyxpath.sourceforge.net). TinyXPath is a small footprint
   XPath syntax decoder, written in C++.
 TinyXML++ (http://code.google.com/p/ticpp/). TinyXML++ is a completely new
   interface to TinyXML that uses MANY of the C++ strengths. Templates,
  exceptions, and much better error handling.

<h2>
Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML
uses the std::string class, and fully supports std::istream, std::ostream,
operator<<, and operator>>. Many API methods have both 'const char*' and
'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All
the string classes are implemented by TinyXML itself. API methods
all use the 'const char*' form for input.

Use the compile time #define:

TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler,
or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment
variable TINYXML_USE_STL=YES/NO will control STL compilation. In the
Windows project file, STL and non STL targets are provided. In your project,
It's probably easiest to add the line "#define TIXML_USE_STL" as the first
line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing
to manipulate XML files in any language. TinyXML
also supports "legacy mode" - the encoding used before UTF-8 support and
probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However,
by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML
can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

 If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf)
begin the file or data stream, TinyXML will read it as UTF-8.
 If the declaration tag is read, and it has an encoding="UTF-8", then
TinyXML will read it as UTF-8.
 If the declaration tag is read, and it has no encoding specified, then TinyXML will
read it as UTF-8.

 If the declaration tag is read, and it has an encoding="something else", then TinyXML
will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's

not clear what that mode does exactly, but old content should keep working.
 Until one of the above criteria is met, TinyXML runs in Legacy Mode.

What happens if the encoding is incorrectly set or detected? TinyXML will try
to read and pass through text seen as improperly encoded. You may get some strange results or
mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile(TIXML_ENCODING_LEGACY) or
LoadFile(filename, TIXML_ENCODING_LEGACY). You may force it to use legacy mode all
the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may
force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You
don't need to be aware of UTF-8 or change your code in any way. You can think
of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!
TinyXML
does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time.
It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding
of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can
handle all languages, at the same time, as long as the XML is encoded
in UTF-8. That can be a little tricky, older programs and operating systems
tend to use the "default" or "traditional" code page. Many apps (and almost all
modern ones) can output UTF-8, but older or stubborn (or just broken) ones
still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding.
Text encoded as SHIFT-JIS can not be read by TinyXML.
A good text editor can import SHIFT-JIS and then save as UTF-8.

The Skew.org link does a great
job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English,
Spanish, Russian,
and Simplified Chinese. (Hopefully they are translated correctly). The file
"utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that
if you don't have the correct fonts (Simplified Chinese or Russian) on your
system, you won't see output that matches the GIF file even if you can parse
it correctly. Also note that (at least on my Windows machine) console output
is in a Western code page, so that Print() or printf() cannot correctly display

the file. This is not a bug in TinyXML - just an OS issue. No data is lost or
destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>
TinyXML recognizes the pre-defined "character entities", meaning special
characters. Namely:

@verbatim
 & &
 < <
 > >
 " "
 ' '
@endverbatim

These are recognized when the XML document is read, and translated to there
UTF-8 equivalents. For instance, text with the XML of:

@verbatim
 Far & Away
@endverbatim

will have the Value()
 of "Far & Away" when queried from the TiXmlText object,
and will be written back to the XML stream/file as an ampersand. Older versions
of TinyXML "preserved" character entities, but the newer versions will translate
them into characters.

Additionally, any character can be specified by its Unicode code point:
The syntax " " or " " are both to the non-breaking space characher.

<h3> Printing </h3>
TinyXML can print output in several different ways that all have strengths and limitations.

- Print(FILE*). Output to a std-C stream, which includes all C files as well as stdout.
 - "Pretty prints", but you don't have control over printing options.
 - The output is streamed directly to the FILE object, so there is no memory overhead
   in the TinyXML code.
 - used by Print() and SaveFile()

- operator<<. Output to a c++ stream.
 - Integrates with standart C++ iostreams.
 - Outputs in "network printing" mode without line breaks. Good for network transmission
   and moving XML
 between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.

- API is less concise
- Future printing options will be put here.
- Printing may change slightly in future versions as it is refined and expanded.

<h3> Streams </h3>
With TIXML_USE_STL on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:
- based on FILE*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:
- based on FILE*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:
- based on std::ostream
- operator<<

Generates condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:
- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>
The world simply does not agree on whether white space should be kept,

or condensed.
For example, pretend the '_' is a space, and look at "Hello____world". HTML, and at least some XML parsers, will interpret this as "Hello_world". They condense white space. Some XML parsers do not, and will leave it as "Hello____world". (Remember to keep pretending the _ is a space.) Others suggest that __Hello___world__ should become Hello___world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace(bool) to set the desired behavior. The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace(bool) before making any calls to Parse XML data, and I don't recommend changing it after it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

@verbatim
TiXmlElement* root = document.FirstChildElement(
 "Document");
if (root)
{
 TiXmlElement* element = root->FirstChildElement("Element");
 if (element)
 {
  TiXmlElement* child = element->FirstChildElement("Child");
  if (child)
  {
   TiXmlElement* child2 = child->NextSiblingElement("Child");
   if (child2)
   {
    // Finally do something useful.
@endverbatim

Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

@verbatim
TiXmlHandle docHandle(&document);
TiXmlElement* child2 = docHandle.FirstChild("Document").FirstChild("Element").Child("Child", 1
).ToElement();
if (child2)
{

// do something useful
@endverbatim

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>
Being able to track nodes and attributes back to their origin location
in source files can be very important for some applications. Additionally,
knowing where parsing errors occured in the original source can be very
time
saving.

TinyXML can tracks the row and column origin of all nodes and attributes
in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return
the origin of the node in the source text. The correct tabs can be
configured in TiXmlDocument::SetTabSize().

<h2> Using and Installing </h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided.
Simply compile and run. It will write the file demotest.xml to your
disk and generate output on the screen. It also tests walking the
DOM by printing out the number of nodes found using different
techniques.

The Linux makefile is very generic and runs on many systems - it
is currently tested on mingw and
MacOSX. You do not need to run 'make depend'. The dependecies have been
hard coded.

<h3>Windows project file for VC6</h3>

tinyxml: tinyxml library, non-STL
tinyxmlSTL: tinyxml library, STL
tinyXmlTest: test app, non-STL
tinyXmlTestSTL: test app,
STL

<h3>Makefile</h3>
At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in
the makefile.

In the tinyxml directory, type "make clean" then "make". The executable
file 'xmltest' will be created.

<h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your
project or make file. That's it! It should compile on any reasonably
compliant C++ system. You do not need to enable exceptions or
RTTI for TinyXML.

<h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:
@verbatim
 <?xml version="1.0" standalone=no>
 <!-- Our to do list data -->
 <ToDo>
  <Item priority="1"> Go to the <bold>Toy store!</bold></Item>
  <Item priority="2"> Do bills</Item>
 </ToDo>
@endverbatim

Its not much of a To Do list, but it will do. To read this file
(say "demo.xml") you would create a document, and parse it in:
@verbatim
 TiXmlDocument
 doc("demo.xml");
 doc.LoadFile();
@endverbatim

And its ready to go. Now lets look at some lines and how they
relate to the DOM.

@verbatim
<?xml version="1.0" standalone=no>
@endverbatim

 The first line is a declaration, and gets turned into the
 TiXmlDeclaration class. It will be the first child of the
 document node.

 This is the only directive/special tag parsed by TinyXML.
 Generally directive tags are stored in TiXmlUnknown so the
 commands wont be lost when it is saved back to disk.

@verbatim
<!-- Our to do list data -->
@endverbatim

A comment. Will become a TiXmlComment object.

@verbatim
<ToDo>
@endverbatim

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

@verbatim
<Item priority="1">
@endverbatim

Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".

@verbatim
Go to the
@endverbatim

A TiXmlText.
This is a leaf node and cannot contain other nodes.
It is a child of the "Item" TiXmlElement.

@verbatim
<bold>
@endverbatim

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:
@verbatim
TiXmlDocument "demo.xml"
 TiXmlDeclaration "version='1.0'" "standalone=no"
 TiXmlComment " Our to do list data"
 TiXmlElement "ToDo"
  TiXmlElement "Item" Attribtutes: priority = 1
   TiXmlText "Go to the "
   TiXmlElement "bold"

```
    TiXmlText  "Toy store!"
  TiXmlElement   "Item" Attributes: priority=2
    TiXmlText   "Do bills"
```

@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox'
configuration file.

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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:

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Lee Thomason, Yves Berquin, Andrew Ellerton
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1.610 lsscsi 0.27

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1.611 systemd-shim 219-19.el7_2.13

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.\"
.\"---------------------------------------------------------------------- */
```

Found in path(s):
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

```
.\" -*- nroff -*- ---------------------------------------------------------- *
```

```
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Found in path(s):
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
```

```
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine.  This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package
 provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi
```

```
%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
```

- Try applying HJ's patch from #65476

*
Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
-
update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),

- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug
 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

*
Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp.spec.in

1.614 docker 18.09.0+git489b8eda6674523df8b82a210399b

1.614.1 Available under license :

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```
package licensing

import (
 "context"
 "crypto/hmac"
 "crypto/sha256"
 "encoding/base64"
 "encoding/json"
 "fmt"
 "time"

 "github.com/docker/libtrust"
 "github.com/docker/licensing/lib/errors"
 "github.com/docker/licensing/lib/go-clientlib"
 "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
 url := c.baseURI
 url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

 license := new(model.IssuedLicense)
 if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
  return nil, err
 }

 return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
 keyID := license.KeyID
 privateKey := license.PrivateKey

 authorization, err := c.getAuthorization(ctx,
 license)
 if err != nil {
  return nil, err
 }
```

```
// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
 err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
 return nil, errors.WithStack(err).With(errors.Fields{
  "key_id": keyID,
 })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
 return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if
err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
```

```
 if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
  return nil, errors.Wrap(err, errors.Fields{
   "key_id": keyID,
  })
 }

 return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
 for _, publicKey := range c.publicKeys {
  if key.KeyID() == publicKey.KeyID() {
   return true
  }
 }
 return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
 decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
 if err != nil {
  return nil, errors.Wrapf(err, errors.Fields{
   "key_id": license.KeyID,
  }, "decoding license authorization
 failed")
 }
 return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
 tokenBytes, err := base64.URLEncoding.DecodeString(token)
 if err != nil {
  return errors.Wrap(err, errors.Fields{"token": token})
 }

 generatedToken, err := generateToken(message, privateKey)
 if err != nil {
  return errors.Wrap(err, errors.Fields{"token": token})
 }
```

```
 generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
 if err != nil {
  return errors.Wrap(err, errors.Fields{"token": token})
 }

 if !hmac.Equal(tokenBytes, generatedBytes) {
  return errors.Forbidden(errors.Fields{"token": token},
 "invalid token")
 }

 return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
 key, err := base64.URLEncoding.DecodeString(privateKey)
 if err != nil {
  return "", errors.Wrap(err, errors.Fields{"msg": message})
 }

 h := hmac.New(sha256.New, key)
 h.Write([]byte(message))
 return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}
```

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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```
package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
 Expiration      time.Time `json:"expiration"`
 Token           string    `json:"token"`
 MaxEngines      int       `json:"maxEngines"`
 ScanningEnabled bool      `json:"scanningEnabled"`
 Type            string    `json:"licenseType"`
 Tier            string    `json:"tier"`
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
 KeyID         string `json:"key_id"`
 PrivateKey    string `json:"private_key"`
 Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
 if l.KeyID == "" {
  return false, "empty key_id"
 }

 if l.PrivateKey == "" {
  return false, "empty private_key"
 }

 if l.Authorization == "" {
  return false, "empty authorization"
 }
```

```
 return true, ""
}
```

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package formatter

```
import (
 "bytes"
 "encoding/json"
 "strings"
 "testing"
 "time"

 "github.com/docker/cli/internal/licenseutils"
 "github.com/docker/licensing/model"
 "gotest.tools/assert"
```

```
 is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
 cases := []struct {
  context  Context
  expected string
 }{
  // Errors
  {
   Context{Format: "{{InvalidFunction}}"},
   `Template parsing error: template: :1: function "InvalidFunction" not defined
`,
  },
  {
   Context{Format: "{{nil}}"},
   `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
  },
  // Table format
  {
   Context{Format: NewSubscriptionsFormat("table", false)},
   `NUM                OWNER               PRODUCT ID          EXPIRES                       PRICING COMPONENTS
1                   owner1              productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2                   owner2              productid2          2020-01-01 10:00:00 +0000
 UTC   compstring
`,
  },
  {
   Context{Format: NewSubscriptionsFormat("table", true)},
   `1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
  },
  {
   Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
   `OWNER
owner1
owner2
`,
  },
  {
   Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
   `OWNER
owner1
owner2
`,
  },
```

```
  // Raw Format
  {
   Context{Format: NewSubscriptionsFormat("raw", false)},
   `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

`,
  },
  {
   Context{Format: NewSubscriptionsFormat("raw", true)},
   `license: id1
license: id2
`,
  },
  // Custom Format
  {
   Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
   `owner1
owner2
`,
  },
 }

 expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

 for _, testcase := range cases {
  subscriptions
 := []licenseutils.LicenseDisplay{
   {
    Num:   1,
    Owner: "owner1",
    Subscription: model.Subscription{
     ID:       "id1",
     Name:     "name1",
     ProductID: "productid1",
     Expires:   &expiration,
     PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
       Name:  "nodes",
       Value: 10,
      },
```

```
    },
   },
   ComponentsString: "compstring",
  },
  {
   Num:   2,
   Owner: "owner2",
   Subscription: model.Subscription{
    ID:        "id2",
    Name:      "name2",
    ProductID: "productid2",
    Expires:   &expiration,
    PricingComponents: model.PricingComponents{
     &model.SubscriptionPricingComponent{
      Name:  "nodes",
      Value: 20,
     },
    },
   },
   ComponentsString: "compstring",
  },
 }
 out := &bytes.Buffer{}
 testcase.context.Output = out
 err := SubscriptionsWrite(testcase.context, subscriptions)
 if err != nil {
  assert.Error(t, err, testcase.expected)
 } else {
  assert.Check(t,
is.Equal(testcase.expected, out.String()))
 }
 }
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
 expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
 subscriptions := []licenseutils.LicenseDisplay{
  {
   Num:   1,
   Owner: "owner1",
   Subscription: model.Subscription{
    ID:        "id1",
    Name:      "name1",
    ProductID: "productid1",
    Expires:   &expiration,
    PricingComponents: model.PricingComponents{
     &model.SubscriptionPricingComponent{
      Name:  "nodes",
```

```
    Value: 10,
   },
  },
 },
 ComponentsString: "compstring",
},
{
 Num:   2,
 Owner: "owner2",
 Subscription: model.Subscription{
  ID:       "id2",
  Name:     "name2",
  ProductID: "productid2",
  Expires:   &expiration,
  PricingComponents: model.PricingComponents{
   &model.SubscriptionPricingComponent{
    Name:  "nodes",
    Value: 20,
   },
  },
 },
 ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
 {
  "Owner":
         "owner1",
  "ComponentsString": "compstring",
  "Expires":          "2020-01-01T10:00:00Z",
  "DockerID":         "",
  "Eusa":             nil,
  "ID":               "id1",
  "Start":            nil,
  "Name":             "name1",
  "Num":              float64(1),
  "PricingComponents": []interface{}{
   map[string]interface{}{
    "name":  "nodes",
    "value": float64(10),
   },
  },
  "ProductID":        "productid1",
  "ProductRatePlan":   "",
  "ProductRatePlanID": "",
  "State":            "",
  "Summary":          "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
 },
```

```
 {
  "Owner":            "owner2",
  "ComponentsString": "compstring",
  "Expires":          "2020-01-01T10:00:00Z",
  "DockerID":         "",
  "Eusa":             nil,
  "ID":               "id2",
  "Start":            nil,
  "Name":             "name2",
  "Num":              float64(2),
  "PricingComponents": []interface{}{
   map[string]interface{}{
    "name":
 "nodes",
    "value": float64(20),
   },
  },
  "ProductID":        "productid2",
  "ProductRatePlan":   "",
  "ProductRatePlanID": "",
  "State":            "",
  "Summary":          "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
 },
}

 out := &bytes.Buffer{}
 err := SubscriptionsWrite(Context{Format: "{{json .}}", Output: out}, subscriptions)
 if err != nil {
  t.Fatal(err)
 }
 for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
  var m map[string]interface{}
  if err := json.Unmarshal([]byte(line), &m); err != nil {
   t.Fatal(err)
  }
  assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
 }
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
 subscriptions := []licenseutils.LicenseDisplay{
  {Num: 1, Owner: "owner1"},
  {Num: 2, Owner: "owner2"},
 }
 out := &bytes.Buffer{}
 err := SubscriptionsWrite(Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
 if
```

```
err != nil {
 t.Fatal(err)
 }
 for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
  var s string
  if err := json.Unmarshal([]byte(line), &s); err != nil {
   t.Fatal(err)
  }
  assert.Check(t, is.Equal(subscriptions[i].Owner, s))
 }
}
```

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package formatter

import (

```
 "time"

 "github.com/docker/cli/internal/licenseutils"
 "github.com/docker/licensing/model"
)

const (
 defaultSubscriptionsTableFormat = "table
{{.Num}}\t{{.Owner}}\t{{.ProductID}}\t{{.Expires}}\t{{.ComponentsString}}"
 defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

 numHeader              = "NUM"
 ownerHeader            = "OWNER"
 licenseNameHeader      = "NAME"
 idHeader               = "ID"
 dockerIDHeader         = "DOCKER ID"
 productIDHeader        = "PRODUCT ID"
 productRatePlanHeader  = "PRODUCT RATE PLAN"
 productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
 startHeader            = "START"
 expiresHeader          = "EXPIRES"
 stateHeader            = "STATE"
 eusaHeader             = "EUSA"
 pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) Format {
 switch source {
 case TableFormatKey:
  if quiet
  {
   return defaultSubscriptionsQuietFormat
  }
  return defaultSubscriptionsTableFormat
 case RawFormatKey:
  if quiet {
   return `license: {{.ID}}`
  }
  return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`
 }
 return Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx Context, subs []licenseutils.LicenseDisplay) error {
 render := func(format func(subContext subContext) error) error {
  for _, sub := range subs {
```

```
  licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
  if err := format(licenseCtx); err != nil {
   return err
  }
 }
 return nil
}
licenseCtx := licenseContext{}
licenseCtx.header = map[string]string{
 "Num":              numHeader,
 "Owner":            ownerHeader,
 "Name":             licenseNameHeader,
 "ID":               idHeader,
 "DockerID":         dockerIDHeader,
 "ProductID":        productIDHeader,
 "ProductRatePlan":   productRatePlanHeader,
 "ProductRatePlanID":
productRatePlanIDHeader,
 "Start":            startHeader,
 "Expires":          expiresHeader,
 "State":            stateHeader,
 "Eusa":             eusaHeader,
 "ComponentsString":  pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
 HeaderContext
 trunc bool
 l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
 return marshalJSON(c)
}

func (c *licenseContext) Num() int {
 return c.l.Num
}

func (c *licenseContext) Owner() string {
 return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
 return c.l.ComponentsString
}
```

```
func (c *licenseContext) Summary() string {
 return c.l.String()
}

func (c *licenseContext) Name() string {
 return c.l.Name
}

func (c *licenseContext) ID() string {
 return c.l.ID
}

func (c *licenseContext) DockerID() string {
 return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
 return c.l.ProductID
}

func (c *licenseContext)
 ProductRatePlan() string {
 return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
 return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
 return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
 return c.l.Expires
}

func (c *licenseContext) State() string {
 return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
 return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
 // Dereference the pricing component pointers in the pricing components
```

```
 // so it can be rendered properly with the template formatter

 var ret []model.SubscriptionPricingComponent
 for _, spc := range c.l.PricingComponents {
  if spc == nil {
   continue
  }
  ret = append(ret, *spc)
 }
 return ret
}
```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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1.617 runc 1.0.0-rc5

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1.618 vim 8.1.0347

1.619 six 1.11.0-3.ph3

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Aymeric Augustin
Ned Batchelder
Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
Julien Danjou
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1.620 python-pip 9.0.3

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1.621 msgpack 1.0.2

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1.622 python-pip 19.0.3

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	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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(1) GPL-compatible doesn't mean that we're distributing Python under
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice
of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
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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	Year	Owner	GPL-

	from		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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1.626 kerberos 1.10.3

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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
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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_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
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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kprop/kpropd_rpc.c
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.632 python-pip 20.2.1

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.
In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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Release	Derived from	Year	Owner	GPL-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
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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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
2.7	2.6	2010	PSF	yes

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2.1.2	2.1.1	2002	PSF	yes
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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
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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
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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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file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
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The of the start-stop-daemon

* A rewrite
 of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.638 libtecla 1.4.1

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1.639 uclibc 1.3.3-040609

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From gsf@research.att.com Wed Mar 1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
 by localhost (Postfix) with ESMTP id B8C814E4F
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
 by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000

Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]
 by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100
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: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:

X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite

> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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1.640 numactl 2.0.12+git0+841253d131

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1.641 pexpect 4.6.0

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1.642 apache-http-server 2.4.48

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```
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* Software Development Group
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* httpd@ncsa.uiuc.edu
*
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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)
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*/

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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
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary
General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this

will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification
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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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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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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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1.646 shadow 4.6

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****

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Version 2, June 1991

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1.648 python-setuptools 3.9.1-6.ph4

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1.650 uclibc 4.7.3

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1.653 libtecla 1.4.0

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1.655 zlib 1.2.11

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version 1.2.11, January 15th, 2017

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

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