Open Source Used In FXOS MIO
2.9.1.157

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 *@(#)extern.h8.1 (Berkeley) 6/6/93
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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

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

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

### 1.11 lablib-checkboxtree 3.2
#### 1.11.1 Available under license:

Found license `General Public License 2.0' in `* CheckboxTree. CheckboxTree is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by * the Free Software Foundation; either version 2 of the License, or (at your * option) any later version. CheckboxTree is distributed in the hope that it * will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty * of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General * Public License for more details. You should have received a copy of the GNU * General Public License along with CheckboxTree; if not, write to the Free'

### 1.12 tftp-hpa 5.2
#### 1.12.1 Available under license:

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):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1108298343_1611281305.28/0/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.

/*** *-.- c -.- **************************************************************************** *

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

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/config.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1108298343_1611281305.28/0/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.

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} \n    SBINDIR=%{_sbindir} MANDIR=%{_mandir} \ninstall
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-defaultpor.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
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

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  - Update to 0.29

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* 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>
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  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
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* 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),
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* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
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- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
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* 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 ftpf-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).

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  - man pages are compressed
  - fix description and summary

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  - split client and server

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  - update to 0.16.

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  - tftpd should truncate file when overwriting (#412)

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

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

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

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

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

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build
Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/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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## This program is free software available under the same license

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

```
 hugs:~ $ cat /usr/src/tftp/hpa-5.2/tftp.spec

```

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

```

```
.
.#       */usr/src/tftp/hpa-5.2/.emacs
.
.
"    Copyright (c) 1990, 1993, 1994
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"    The Regents of the University of California. All rights reserved.
.
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.
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"       notice, this list of conditions and the following disclaimer.
.
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"       documentation and/or other materials provided with the distribution.
.
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"       may be used to endorse or promote products derived from this software
"       without specific prior written permission.
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"    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
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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.
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* ----------------------------------------------------------------------- */

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*/opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
*/opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h

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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftp/extern.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h

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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c
1.13 libasyncns 0.8

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1.15 cyrus-sasl 2.1.26-21.el7

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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...
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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.

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1.23.1 Available under license :
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   Andrew, Nick
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The following people have worked to translate sudo into other languages:

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1.28 zlib 1.2.8

1.28.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
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* (Deinst@world.std.com). David and I are now
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* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.
*
* Special thanks also go to La'szlo' Ne'meth
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1.30 lua 5.3.3

1.31 gawk 4.0.2 4.el7
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1.32 systemd 219-19.el7_2.13

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1.35 tcp-dump 4.9.3

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1.36 gtk 2.24.10

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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
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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
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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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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
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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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1.50 libdrm 2.4.60

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

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.

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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
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entire whole, and thus to each and every part regardless of who wrote
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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
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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
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
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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1.64 e2fsprogs 1.42.9

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Index: tdbsa/tdb.c

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

 - trivial database library - private includes
 -
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 command-line interface parsing library library. It is currently
 distributed together with the EXT2 file system utilities, which are
 otherwise packaged as "e2fsprogs".

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

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Gadi Oxman, August 1995

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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.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
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If the program is interactive, make it output a short notice like this
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  Gnomovision version 69, Copyright (C) 19yy name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c' for details.

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

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

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

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

This General Public License does not permit incorporating your program into
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1.65 libxdmcp 1.1.2-r2
1.65.1 Available under license :

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1.66 iptables 1.4.21

1.66.1 Available under license:

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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 the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

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

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

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

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

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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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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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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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1.67 glib 2.50.3-3.el7
1.67.1 Available under license:

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

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

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

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

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

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

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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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.

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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
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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
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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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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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1.68 net-snmp 5.1

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1.69 keyutils 1.5.8 3.el7
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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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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 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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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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The "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.

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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.

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

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* 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: 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:stylesheet>
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DOCUMENTATION ROADMAP
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OVERVIEW General description of JPEG and the IJG software.
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REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

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

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

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

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

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

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

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the 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 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.


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.iijg.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.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible

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
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with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

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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
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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

1.78 zlib 1.2.3.3

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1.80 libsoup 2.36.1

1.81 tcl 8.5.9

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

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Bell Labs Innovations for Lucent Technologies
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1.82 uclibc 1.3.3-040609

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Received: from localhost ([127.0.0.1])
by localhost ([127.0.0.1]) with ESMTP id B8C814E4F
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
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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
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Is it allowed to use the code there, or should I accommodate the testsuite
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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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1.83 mesa 18.3.4
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libfreedreno_layout = static_library(
    'freedreno_layout',
    [  
        'fd6_layout.c',
        'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc_common],
    c_args : [c_vis_args, no_override_init_args],
    cpp_args : [cpp_vis_args],
    dependencies : idep_nir_headers,
    build_by_default : false,
)

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1.84 pcre 8.38

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THE BASIC LIBRARY FUNCTIONS

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Written by:       Philip Hazel
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Email domain:     cam.ac.uk

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1.85 readline 6.2

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1.89 open-ldap 2.4.40 9.el7_2

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- cmd/krb5/iprop/iprop_hdr.h
- cmd/krb5/kadmin/server/ipropd_svc.c
- cmd/krb5/kproplog/kproplog.c
- cmd/krb5/slave/kpropd_svc.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
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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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kadmin/server
lib/kadm5
lib/rpc
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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
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   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
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   lib/gssapi/mechglue/g_export_name.c
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   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_sign.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

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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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<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT:    '../',
    VERSION:     '1.17',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE:  true,
    SOURCELINK_SUFFIX: '.txt'
};
</script>
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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
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
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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

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')
        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)
.. _mitK5license:

MIT Kerberos License information
================================

.. toctree::
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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
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1.94 open-ldap 2.4.57
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1.95 p11-kit 0.23.5-3.el7

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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. :-)

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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 by 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
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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)
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:

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 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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<link rel="up" href="upgrade_60_toc.html" title="Chapter 9. Upgrading Berkeley DB 11.2.5.3 applications to
Berkeley DB 12.1.6.0" />
<link rel="prev" href="compare_func.html" title="Comparison Function Signature Change" />
<link rel="next" href="sqlite_ver60.html" title="Updated SQLite Version" />
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<div class="libver">
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</div>
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</tr>
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<th width="60%" align="center">Chapter 9. Upgrading Berkeley DB 11.2.5.3 applications to
Berkeley DB 12.1.6.0</th>
<td width="20%" align="right"><a accesskey="n" href="sqlite_ver60.html">Next</a></td>
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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
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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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
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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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1.101 binutils 2.24

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1.102 libpciaccess 0.12.902-1

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1.103 log-rotate 3.8.7

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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1.120 libxcursor 1.1.13

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1.122 netbsd-resolv 2.17 196.el7_4.2

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

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

Written by Marc-Andre Lemburg (mal@лембург.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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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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/* Random objects */

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

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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subprocess - Subprocesses with accessible I/O streams

For more information about this module, see PEP 324.

This module should remain compatible with Python 2.2, see PEP 291.

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# $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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# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
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# -- Gregory P. Smith <greg@krypto.org>
#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $

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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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Mersenne Twister

-----------------

The :mod:`_random` module includes code based on a download from http://www.math.keio.ac.jp/matsumoto/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:::

A C-program for MT19937, with initialization improved 2002/1/26.
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http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

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

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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  2.0.16/fips/rand/fips_rand_lcl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/rand/fips_drbg_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/rand/fips_drbgvs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/ecdh/fips_ecdhvs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/ectsa/fips_ecdavs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/rand/fips_drbg_hash.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/dh/fips_dhvs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/rand/fips_drbg_rand.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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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/aes/aes_core.c
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  /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/ecdh/ech_locl.h
  /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/asn1/asn1t.h

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_ssl.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_add.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh_gen.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_none.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_pk1.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_recp.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/sha/sha_locl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/evp/m_sha1.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa_key.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-
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2.0.16/crypto/bn/bn_div.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/rsa/rsa_x931g.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/util/add_cr.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/bn/bn_prime.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/rsa/rsa_crpt.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/fips/utils/fips_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/evp/m_dss.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/asn1/asn1_mac.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/objects/objects.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/des/cfb644enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/dsa/dsa_gen.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/bio/bio.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/dh/dh.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/bn/bn_word.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/des/cfb64ede.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/dh/dh_key.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/evp/e_des3.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/buffer/buf_str.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/evp/e_cbc3_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/dsa/dsa_ossl.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/rsa/rsa_gen.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/des/spr.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/des/fcrypt_b.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/evp/e_null.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/des/
#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
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# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# SHA512 for C64x+.
#
# January 2012
#
# Performance is 19 cycles per processed byte. Compared to block
# transform function from sha512.c compiled with cf6x with -mv6400+
# -o2 -DOPENSSEAL_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 SHRUI|SHL pairs and you can't schedule
# more of them.
#
# !!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve it and for own well-being
# zero it upon entry.

while ((($output=shift) && ($output!~/\w\[\w\-]*\..+$/)) {})
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6");       # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Cl0,$Cctxlo,$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,$T2lo);
LDW*$\{CTXA\}[2^.LITTLE_ENDIAN],SBhi | LDW*$\{CTXB\}[3^.LITTLE_ENDIAN],SBlo
LDW*$\{CTXA\}[4^.LITTLE_ENDIAN],SChi | LDW*$\{CTXB\}[5^.LITTLE_ENDIAN],SClo
LDW*$\{CTXA\}[6^.LITTLE_ENDIAN],SDhi | LDW*$\{CTXB\}[7^.LITTLE_ENDIAN],SDlo
LDW*$\{CTXA\}[8^.LITTLE_ENDIAN],SEhi | LDW*$\{CTXB\}[9^.LITTLE_ENDIAN],SElo
LDW*$\{CTXA\}[10^.LITTLE_ENDIAN],SFhi | LDW*$\{CTXB\}[11^.LITTLE_ENDIAN],SFlo
LDW*$\{CTXA\}[12^.LITTLE_ENDIAN],SGhi | LDW*$\{CTXB\}[13^.LITTLE_ENDIAN],SGlo
LDW*$\{CTXA\}[14^.LITTLE_ENDIAN],SHhi | LDW*$\{CTXB\}[15^.LITTLE_ENDIAN],SHlo

LDNDW*$INP++,B11:B10; pre-fetch input
LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]

outerloop?:
MVK15,B0; loop counters
[MVK64,B1
|SUBA0.1,A0
MV$Ahi,$Actxhi
|MV$Alo,$Actxlo
|MV$Bhi,$Bctxhi
|MV$Blo,$Bctxlo
|MV$Chi,$Cctxhi
|MV$Clo,$Cctxlo
|MV$Dhi,$Dctxhi
|MV$Dlo,$Dctxlo
MV$Ehi,$Ectxhi
|MV$Elo,$Ectxlo
|MV$Fhi,$Fctxhi
|MV$Flo,$Fctxlo
|MV$Ghi,$Gctxhi
|MV$Glo,$Gctxlo
|MV$Hhi,$Hctxhi
|MV$Hlo,$Hctxlo

loop0_15?:
|.if BIG_ENDIAN
MV$B11,$T1hi
|MV$B10,$T1lo
.|else
SWAP4B10,$T1hi
|SWAP4B11,$T1lo
SWAP2$T1hi,$T1hi
|SWAP2$T1lo,$T1lo
.|endif

loop16_79?:

STWST1hi,*$Xhi++[2]
||STWST1lo,*$Xilo++[2]; X[i] = T1
||ADD$Hhi,$T1hi,$T1hi
||ADD$Hlo,$T1lo,$T1carry:$T1lo; T1 += h
||SHRUSEhi,14,$S1hi
||SHL$Ehi,32-14,$S1lo
||XOR$Fhi,$Ghi,$CHhi
||XOR$Flo,$Glo,$CHlo
||ADDKH$T1hi,$T1hi
||ADDUKL0,$T1carry:$T1lo,$T1carry:$T1lo; T1 += K512[i]
||SHRUSElo,14,$St0lo
||SHL$Elo,32-14,$St0hi
||XOR$St0hi,$S1hi,$S1hi
||XOR$St0lo,$S1lo,$S1lo
||AND$Ehi,$CHhi,$CHhi
||AND$Elo,$CHlo,$CHlo
||ROTL$Sghi,0,$Sghi
||ROTL$Sglo,0,$Glo; h = g
||SHRUSEhi,18,$St0hi
||SHL$Ehi,32-18,$St0lo
||XOR$St0hi,$S1hi,$S1hi
||XOR$Sghi,$CHhi,$CHhi
||XOR$Sglo,$CHlo,$CHlo; Ch(e,f,g) = ((f^g)&e)^g
||ROTL$Sfhi,0,$Sfhi
||ROTL$Sflo,0,$Sflo; g = f
||SHRUSElo,18,$St0lo
||SHL$Elo,32-18,$St0hi
||XOR$St0hi,$S1hi,$S1hi
||XOR$St0lo,$S1lo,$S1lo
||ORS$ahi,$Bhi,$MAJhi
||ORS$alo,$blo,$MAJlo
||ROTL$Sfhi,0,$Sfhi
||ROTL$Sflo,0,$Sflo; f = e
||SHRUSEhi,41-32,$St0lo
||SHL$Ehi,64-41,$St0hi
||XOR$St0hi,$S1hi,$S1hi
||XOR$St0lo,$S1lo,$S1lo
||AND$Chi,$MAJhi,$MAJhi
||AND$Clo,$MAJlo,$MAJlo
||ROTL$Dhi,0,$Ehi
||ROTL$Dlo,0,$Elo; e = d
||SHRUSElo,41-32,$St0hi
||SHL$Elo,64-41,$St0lo
||XOR$St0hi,$S1hi,$S1hi
||XOR$St0lo,$S1lo,$S1lo; Sigma1(e)
||AND$Ahi,$Bhi,$St1hi
||AND$Alo,$blo,$St1lo
S1hi = S0hi + S1lo + T1hi + T1lo + Sigma1(e)
S1lo = T1lo + T1hi + Sigma0(a) + Sigma0(a)
Sigma0(a) = T1hi + T1lo + Sigma0(a) + Sigma0(a)
Sigma1(e) = T1hi + T1lo + Sigma1(e) + Sigma1(e)

|ROTL$Chi,0,$Dhi  || ROTLS$Clo,0,$Dlo; d = c
|SHRUS$Ahi,28,$S0hi || SHLS$Ahi,32-28,$S0lo
|OR$t1hi,$MAJhi,$MAJhi || OR$t1lo,$MAJlo,$MAJlo; Maj(a,b,c) = ((ab)c)(a&b)
|ADD$CHhi,$T1hi,$T1hi || ADDUS$CHlo,$T1carry,$T1lo; T1 += Ch(e,f,g)
|ROTLS$Bhi,0,$Chi || ROTLS$Blo,0,$Clo; c = b
|SHRUS$Alo,28,$t0lo || SHLS$Alo,32-28,$t0hi
|XORS$t0hi,$S0hi,$S0hi || XORS$t0lo,$S0lo,$S0lo
|ADD$S1hi,$T1hi,$T1hi || ADDUS$S1lo,$T1carry,$T1lo; T1 += Sigma1(e)
|ROTLS$Ahi,0,$Bhi || ROTLS$Alo,0,$Blo; b = a
|SHRUS$Ahi,34-32,$t0lo || SHLS$Ahi,64-34,$t0hi
|XORS$t0hi,$S0hi,$S0hi || XORS$t0lo,$S0lo,$S0lo
|ADD$MAJhi,$T1hi,$T2hi || ADDUS$MAJlo,$T1carry,$T2lo; T2 = T1+Maj(a,b,c)
|SHRUS$Alo,34-32,$t0lo || SHLS$Alo,64-34,$t0hi
|XORS$t0hi,$S0hi,$S0hi || XORS$t0lo,$S0lo,$S0lo
|ADD$Ehi,$T1hi,$T1hi || ADDUSE$Elo,$T1carry,$T1lo; T1 += e
|| [B0]BNOPloop_15? || [B0]BNOPbreak?
|SHRUS$Ahi,39-32,$t0lo || SHLS$Ahi,64-39,$t0hi
|XORS$t0hi,$S0hi,$S0hi || XORS$t0lo,$S0lo,$S0lo
|| [B0]LDNDW*$INP++,B11:B10; pre-fetch input || [B1]LDNDW*$INP++;B11:B10; pre-fetch input
|| [B0]MV$ST1lo,$Elo; e = T1 || [B1]MV$ST1lo,$Elo; e = T1
|| [B0]LDW*$X[hi][28],$T1hi || [B1]LDW*$X[i][28],$T1lo; X[i+14] ADD$S0hi,$T2hi,$T2hi
|| ADDUS$S0lo,$T2carry,$T2lo; T2 += Sigma0(a) || [B1]LDW*$SK512++,SKhi:$Skl; pre-fetch K512[i]
NOP; avoid cross-path stall
ADDST2carry,$T2hi,$Ahi
||MVST2lo,$Alo; a = T2
||[B0]SUBB0.1,B0
;;;;= branch to loop00_15? is taken here
NOP
;;;;= branch to break? is taken here
LDW*$[Xhi][2],$T2hi
||LDW*$[Xilo][2],$T2lo; X[i+1]
||SHRLST1hi,19,$S1hi
||SHLST1hi,32-19,$S1lo
||SHRUST1lo,19,$t0lo
||SHLST1lo,32-19,$t0hi
||XOR$t0hi,$S1hi,$S1hi
||XOR$t0lo,$S1lo,$S1lo
||SHRLST1lo,61-32,$t0lo
||SHLST1lo,64-61,$t0hi
||XOR$t0hi,$S1hi,$S1hi
||XOR$t0lo,$S1lo,$S1lo
||SHRLST1lo,61-32,$t0hi
||SHLST1lo,64-61,$t0lo
||XOR$t0hi,$S1hi,$S1hi
||XOR$t0lo,$S1lo,$S1lo
||SHRLST1lo,6,$t0hi
||SHLST1lo,32-6,$t0lo
||XOR$t0hi,$S1hi,$S1hi
||XOR$t0lo,$S1lo,$S1lo
||SHRLST1lo,6,$t0lo
||LDW*$[Xhi][18],$T1hi
||LDW*$[Xilo][18],$T1lo; X[i+9]
||XOR$t0lo,$S1lo,$S1lo; sigma1(X[i+14])

||LDW*$[Xhi][0],$CHhi
||LDW*$[Xilo][0],$CHlo; X[j]
||SHRUST2hi,1,$S0hi
||SHLST2hi,32-1,$S0lo
||SHRUST2lo,1,$t0lo
||SHLST2lo,32-1,$t0hi
||XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||SHRUST2hi,8,$t0hi
||SHLST2hi,32-8,$t0lo
||XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||SHRUST2lo,8,$t0lo
||SHLST2lo,32-8,$t0hi
||XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADDSS1hi,ST1hi,ST1hi
||ADDUS1lo,ST1lo,ST1carry:ST1lo; T1 = X[i+9]+sigma1()
|| [B1]BNOP loop16_79?
||SHRUST2hi,7,ST0hi
||SHLST2hi,32-7,ST0lo
XORS$0hi,$S0hi,$S0hi
||XORS$0lo,$S0lo,$S0lo
||ADDSC$hi,ST1hi,ST1hi
||ADDUS$hi,ST1carry:ST1lo,ST1carry:ST1lo; T1 += X[i]
||SHRUST2lo,7,ST0lo
XORS$0lo,$S0lo,$S0lo; sigma0(X[i+1]
ADDSS$0hi,ST1hi,ST1hi
||ADDUS$0lo,ST1carry:ST1lo,ST1carry:ST1lo; T1 += sigma0()
|| [B1]SUBB1,1,B1
NOP; avoid cross-path stall
ADDST1carry,ST1hi,ST1hi
;==== branch to loop16_79? is taken here

break?:
ADDSAh$hi,SActxhi,SAhi; accumulate ctx
||ADDSAh$lo,SActxlo,SActxlo:SAlo
|| [A0]LDNDW*$INP++,B11:B10; pre-fetch input
|| [A0]ADDK-640,$K512; rewind pointer to K512
ADDSB$hi,SBctxhi,SBhi
||ADDSB$lo,SBctxlo,SBctxlo:SBlo
|| [A0]LDDW*$K512++,SKhi:$Klo; pre-fetch K512[0]
ADDSCh$hi,SCctxhi,SChi
||ADDS$C$hi,SCctxlo,SCctxlo:SClo
||ADDS$Actxlo,SAhi,SAhi
||![A0]MVSCTXA,CTXB
ADDS$D$hi,SDctxhi,SDhi
||ADDS$D$lo,SDctxlo,SDctxlo:SDlo
||ADDS$Bctxlo,SBhi,SBhi
||![A0]STWS$A$i,*$CTXA][0^LITTLE_ENDIAN]; save ctx
||!A0]STWS$alo,*$CTXB][1^LITTLE_ENDIAN]
ADDS$Ehi,SEctxhi,SEhi
||ADDS$E$lo,SEctxlo,SEctxlo:SElo
||ADDS$Cctxlo,SChi,SChi
|| [A0]BNOP outerloop?
||![A0]STWS$Bhi,*$CTXA][2^LITTLE_ENDIAN]
||![A0]STWS$B$lo,*$CTXB][3^LITTLE_ENDIAN]
ADDS$Fhi,SFctxhi,SFhi
||ADDS$F$lo,SFctxlo,SFctxlo:SFlo
||ADDS$Dctxlo,SDhi,SDhi
||![A0]STWS$Chi,*$CTXA][4^LITTLE_ENDIAN]
||![A0]STWS$Clo,*$CTXB][5^LITTLE_ENDIAN]
ADDS$Ghi,SGctxhi,SGhi
||ADDUSGlo,SGctxlo,SGctxlo:$Glo
||ADDSGctxlo,$Ehi,$Ehi
||![A0]STWSDhi,*${CTXA}[6^.LITTLE_ENDIAN]
||![A0]STWSDlo,*${CTXB}[7^.LITTLE_ENDIAN]
ADDSSHhi,SHctxhi,SHhi
||ADDUSHilo,SHctxlo,SHctxlo:$Hlo
||ADDSFctxlo,SHhi,SHhi
||![A0]STWSHilo,*${CTXA}[8^.LITTLE_ENDIAN]
||![A0]STWSHilo,*${CTXB}[9^.LITTLE_ENDIAN]
ADDSSGctxlo,$Ghi,$Ghi
||![A0]STWSGhi,*${CTXA}[10^.LITTLE_ENDIAN]
||![A0]STWSGilo,*${CTXB}[11^.LITTLE_ENDIAN]
ADDSSHctxlo,SHhi,SHhi
||![A0]STWSGhi,*${CTXA}[12^.LITTLE_ENDIAN]
||![A0]STWSGilo,*${CTXB}[13^.LITTLE_ENDIAN]
;;;;= branch to outerloop? is taken here

STWSHhi,*${CTXA}[14^.LITTLE_ENDIAN]
||STWSHilo,*${CTXB}[15^.LITTLE_ENDIAN]
||MVK-40,B0
ADDFP,BO,SP; destroy circular buffer
||LDDW*FP[-4],A11:A10
LDDW*SP[2],A13:A12
||LDDW*FP[-2],B11:B10
LDDW*SP[4],B13:B12
||BNOPRA
LDW++SP(40),FP; restore frame pointer
MVK0,B0
MVCB0,AMR; clear AMR
NOP2; wait till FP is committed
.endasmfunc

.sect".const:sha_asm"
.align128
K512:
.uword0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
.uword0xb5c0fbcf,0xec4d3b2f, 0x3956c25b,0xf348b538, 0x80deb1fe,0x3b1696b1
.uword0x923f82a4,0xaf194f9b, 0x9bdc06a7,0xee66dfab, 0xa831c66d,0x2db43210
print $code;
close STDOUT;

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-c64xplus.pl
No license file was found, but licenses were detected in source scan.

/*.c>, <crypto/*/*.c>, <ssl/*.c>, <apps/*.c>)
When this option is NOT specified, the filelist is taken from the commandline instead. Here, wildcards may be embedded. (Be sure to escape those to prevent the shell from expanding them for you when you wish mkerr.pl to do so instead.)
Default: take file list to scan from the command line.

-reindex Discard the numeric values previously assigned to the error and function codes as extracted from the scanned header files;
instead renumber all of them starting from 100. (Note that the numbers assigned through 'R' records in the config file remain intact.)
Default: keep previously assigned numbers. (You are warned when collisions are detected.)

-nostatic Generates a different source code, where these additional functions are generated for each library specified in the config file:
void ERR_load_<LIB>_strings(void);
void ERR_unload_<LIB>_strings(void);
void ERR_<LIB>_error(int f, int r, char *fn, int ln);
#define <LIB>err(f,r) ERR_<LIB>_error(f,r,FILE,,LINE)
while the code facilitates the use of these in an environment where the error support routines are dynamically loaded at runtime.
Default: 'static' code generation.

-staticloader Prefix generated functions with the 'static' scope modifier.
Default: don't write any scope modifier prefix.

-write Actually (over)write the generated code to the header and C source files as assigned to each library through the config file.
Default: don't write.

-help / -h / -? / --help Show this help text.
... Additional arguments are added to the file list to scan, assuming '-recurse' was NOT specified on the command line.

EOF
exit 1;
} else {
last;
}
}
if($recurse) {
@source = ( <crypto/*.c>, <crypto/*/c>, <ssl/*/c>,
<fips/*/*.c>, <fips/*/c>);
} else {
@source = @ARGV;
}

# Read in the config file

open(IN, "<$config") || die "Can't open config file $config":
# Parse config file

while(<IN>)
{
    if(/^L\s+\(\S+\)\s+\(\S+\)\s+\(\S+\)/) {
        $hinc{$1} = $2;
        $libinc{$2} = $1;
        $cskip{$3} = $1;
        if($3 ne "NONE") {
            $src{$1} = $3;
            $fmax{$1} = 100;
            $rmax{$1} = 100;
            $fassigned{$1} = ":";
            $rassigned{$1} = ":";
            $fnew{$1} = 0;
            $rnew{$1} = 0;
        }
    } elsif (/^F\s+\(\S+\)/) {
        # Add extra function with $1
    } elsif (/^R\s+\(\S+\)\s+\(\S+\)/) {
        $rextra{$1} = $2;
        $rcodes{$1} = $2;
    }
}
}

close IN;

# Scan each header file in turn and make a list of error codes
# and function names

while (($hdr, $lib) = each %libinc)
{
    next if($hdr eq "NONE");
    print STDERR "Scanning header file $hdr\n" if $debug;
    my $line = " ", $def= " ", $linenr = 0, $gotfile = 0;
    if (open(IN, "<$hdr")) {
        $gotfile = 1;
        while(<IN>) {
            $linenr++;
        }
    print STDERR "line: $linenr\n" if $debug;
    }
    last if/BEGIN\s+ERROR\s+CODES/;
    if ($line ne "") {
        $_. = $line . ";
        $line = " ";
    }
}
if (/
$/) {
    $line = $_;
    next;
}

if (/^
/) {
    if (not \^\n/) { # multiline comment...
        $line = $_; # ... just accumulate
        next;
    } else {
        s/\n.*?\n//gs; # wipe it
    }
}

if ($cpp) {
    $cpp++ if /^#.*if/;
    $cpp-- if /^#.*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 .= $._;
}

# The goal is to collect function names from function declarations.
s/\[\n\s\]*//g;
s/\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/\(\w*\)\*\b(\w+):\b/\1/gs;	#(*f{}) -> f
}

# pretend as we didn't use curly braces: {} -> ()
s/\{\}/\(\)/gs;

if (/(/\w+\)\*\(\),\*/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+\(\S+\)\(\S+\)/) {
      $name = $1;
      $code = $2;
      next if $name =~ /$liberr/;
    } elsif (/\$\[RF\]_/($\w+)/) {
      print STDERR "Invalid error code $name\n";
    } else if ($name =~ /^$\[RF\]_/($\w+)/) {  
      print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
      ++$errcount;
      $rassigned{$lib} .= "$code:";
    } else if (!exists $rextra{$name}) && ($code > $rmax{$lib}) {
      $rcodes{$name} = $code;
      if ($rassigned{$lib} =~ /:$code:/) {
        print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
        ++$errcount;
        $rassigned{$lib} .= "$code:";
      } else {
        $rassigned{$lib} .= "$code:";
      }
      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:";
        } else {
          $rassigned{$lib} .= "$code:";
        }
      }
    } else {
    }
  }
}
$rmax{$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";
}
}

# 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: "><WRAP>$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\*\+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	= $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	= $rcodes{$1} (lib: $2)\n" if $debug;
        }
    }
    close IN;
}
# Now process each library in turn.

foreach $lib (keys %csrc) {
    my $hfile = $hinc{$lib};
    my $cfile = $csrc{$lib};
    if(!$fnew{$lib} && !$rnew{$lib}) {

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, $_;
    }
    close IN;
} else {
    push @out,
    "/* ====================================================================
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    * modification, are permitted provided that the following conditions
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    * \"This product includes software developed by the OpenSSL Project\"
    * for use in the OpenSSL Toolkit. (http://www.openssl.org/)
    * The names \"OpenSSL Toolkit\" and \"OpenSSL Project\" must not be used
    */
    ",

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

This product includes cryptographic software written by Eric Young.
(eay@cryptsoft.com). This product includes software written by Tim
Hudson (tjh@cryptsoft.com).

* * *

ifndef HEADER_$[lib]_ERR_H
#define HEADER_$[lib]_ERR_H

#ifndef __cplusplus
extern "C"
#endif

/* BEGIN ERROR CODES */

open (OUT, ">$hfile") || die "Can't Open File $hfile for writing"

print OUT @out;
undef @out;
print OUT <<"EOF";
/* The following lines are auto generated by the script mkerr.pl. Any changes
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
}
/* Error codes for the $lib functions. */

/* Function codes. */
foreach $i (@function) {
$z=6-int(length($i)/8);
if($fcodes{$i} eq "X") {
$fassigned{$lib} =~ m/^:(\[^:\]*):/;
$findexcode = $1;
if (!defined($findexcode)) {
$findexcode = $fmax{$lib};
}
while ($fassigned{$lib} =~ m/:$findexcode:/) {
$findexcode++;
}
$fcodes{$i} = $findexcode;
$fassigned{$lib} .= "$findexcode:";
print STDERR "New Function code $i
" if $debug;
}
printf OUT "#define $i%s $fcodes{$i}\n","t" x $z;
}

print OUT "\n/* Reason codes. */
foreach $i (@reasons) {
$z=6-int(length($i)/8);
if($rcodes{$i} eq "X") {
$rassigned{$lib} =~ m/^:(\[^:\]*):/;
$rfindcode = $1;
if (!defined($rfindcode)) {
$rfindcode = $rmax{$lib};
}
while ($rassigned{$lib} =~ m/:$rfindcode:/) {
$rfindcode++;
}
$rcodes{$i} = $rfindcode;
$rassigned{$lib} .= "$rfindcode:";
print STDERR "New Reason code $i
" if $debug;
}
printf OUT "#define $i%s $rcodes{$i}\n","t" x $z;
}

foreach $i (@reasons) {
print OUT "\n*/ Reason codes. */

foreach $i (@function) {

if (!defined($findcode)) {
    $findcode = $rmax{$lib};
}
while ($rassigned{$lib} =~ m/$findcode/) {
    $findcode++;
} $rcodes{$i} = $findcode;
$rassigned{$lib} .= "$findcode:"; print STDERR "New Reason code $i
" if $debug;
} printf OUT "#define $i$s $rcodes{$i}","x $sz;
} 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
";
            } $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 */
/* EOF */
/* **************************************************************************
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* Hudson (tjh@cryptsoft.com).
*
*scale/*

/* 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 $str = "ERR_REASON($i)";
my $nspace = 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]/;
}
$nspace = 40 - length($str) unless length($str) > 40;
$nspace = " " x $nspace;
print OUT "[\{$str}\{$nspace}\"$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
    }
}

${staticloader}void ERR_load_${lib}_strings(void)
{
    if (${lib}_error_init)
    {
        ${lib}_error_init=0;
        #ifdef OPENSSL_NO_ERR
        ERR_load_strings(${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 (${lib}_error_init == 0)
    {
        #ifdef OPENSSL_NO_ERR
        ERR_unload_strings(${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($debug && defined(%notrans)) {
    print STDERR "The following function codes were not translated:
"
    foreach(sort keys %notrans)
        { 
            print STDERR "$_
"
        }
}

# 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($debug && defined(@funref) ) {
    print STDERR "The following function codes were not referenced:
"
    foreach(sort @funref)
        { 
            print STDERR "$_
"
        }
    }
if($debug && defined(@runref) ) {
    print STDERR "The following reason codes were not referenced:\n";
    foreach(sort @runref) {
        print STDERR "\n";
    }
}
if($errcount) {
    print STDERR "There were errors, failing...\n\n";
    exit $errcount;
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/util/mkerr.pl

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/aes.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/ecb.c
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#!/usr/bin/env perl

# Wrote by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
#===============================================================

# I let hardware handle unaligned input(*), except on page boundaries
# (see below for details). Otherwise straightforward implementation
# with X vector in register bank. The module is big-endian [which is
# not big deal as there're no little-endian targets left around].
#
# (*) this means that this module is inappropriate for PPC403? Does
# anybody know if pre-POWER3 can sustain unaligned load?

# -m64-m32
# ----------------------------
# PPC970, gcc-4.0.0+76%+59%
# Power6, xlc-7+68%+33%

$flavour = shift;

if ($flavour =~ /64/) {
   $SIZE_T=8;
   $LRSAVE=2*$SIZE_T;
   $UCMP="cmpld";
   $STU="stdu";
   $POP="ld";
   $PUSH="std";
} elsif ($flavour =~ /32/) {
   $SIZE_T=4;
   $LRSAVE=$SIZE_T;
   $UCMP="cmpeqw";
   $STU="stwu";
   $POP="lwz";
   $PUSH="stw";
} else { die "nonsense $flavour"; }

$0 =~ m/(.*[\/]\/)[^\/]++; Sdir=$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$Sf,$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$Sf,$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$Sf,$K,$e
rotlwi$e,$a,5
xor@X[$j%16],@X[$j%16],@X[$(j+2)%16]
add$Sf,$f,@X[$i%16]
xor$t0,$b,$c
xor@X[$j%16],@X[$j%16],@X[$(j+8)%16]
add$Sf,$f,$e
rotlwi$b,$b,30
xor$t0,$t0,$d
xor@X[$j%16],@X[$j%16],@X[$(j+13)%16]
add$Sf,$f,$t0
rotlwi@X[$j%16],@X[$j%16],1
___
$code.=<<___ if ($i==79);
add$Sf,$K,$e
rotlwi$e,$a,5
lwz$t16,0($ctx)
add$Sf,$f,@X[$i%16]
xor$t0,$b,$c
lwz$t17,4($ctx)
add$Sf,$f,$e
rotlwi$b,$b,30
lwz$t18,8($ctx)
xor$t0,$t0,$d
lwz$t19,12($ctx)
add$Sf,$f,$t0
lwz$t20,16($ctx)
___
}

sub BODY_40_59 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;$
my $j=$i+1;

$code=<<__;
add$Sf,$S,$Se
roth$e,$a,5
xor@X[$j%16],@X[$j%16],@X[$i%16]
add$Sf,$f,$e
and$t0,$b,$c
or$t1,$b,$c
roth$b,$b,30
xor@X[$j%16],@X[$j%16],@X[$i%16]
add$t1,$t1,$d
or$t0,$t0,$t1
roth@X[$j%16],@X[$i%16],1
add$Sf,$f,$t0
___

} $code=<<__;
_.machine"any"
_.text

.globl.sha1_block_data_order
.align4
.sha1_block_data_order:
$STUSp,-$FRAME($sp)
mflr0
SPUSHr15,"$FRAME-$SIZE_T*17"($sp)
SPUSHr16,"$FRAME-$SIZE_T*16"($sp)
SPUSHr17,"$FRAME-$SIZE_T*15"($sp)
SPUSHr18,"$FRAME-$SIZE_T*14"($sp)
SPUSHr19,"$FRAME-$SIZE_T*13"($sp)
SPUSHr20,"$FRAME-$SIZE_T*12"($sp)
SPUSHr21,"$FRAME-$SIZE_T*11"($sp)
SPUSHr22,"$FRAME-$SIZE_T*10"($sp)
SPUSHr23,"$FRAME-$SIZE_T*9"($sp)
SPUSHr24,"$FRAME-$SIZE_T*8"($sp)
SPUSHr25,"$FRAME-$SIZE_T*7"($sp)
SPUSHr26,"$FRAME-$SIZE_T*6"($sp)
SPUSHr27,"$FRAME-$SIZE_T*5"($sp)
SPUSHr28,"$FRAME-$SIZE_T*4"($sp)
SPUSHr29,"$FRAME-$SIZE_T*3"($sp)
SPUSHr30,"$FRAME-$SIZE_T*2"($sp)
SPUSHr31,"$FRAME-$SIZE_T*1"($sp)
SPUSHr0, "$FRAME+$LRSAVE"($sp)
lwzA,0($ctx)
lwzS,4($ctx)
lwzS,8($ctx)
lwz$D,12($ctx)
lwz$E,16($ctx)
andi.r0,$inp,3
bneLunaligned
Laligned:
mtctr$num
bLsha1_block_private
bLdone

; 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...
.align4
Lunaligned:
subfic$t1,$inp,4096
andi.$t1,$t1,4095; distance to closest page boundary
srwi.$t1,$t1,6; t1/=64
beqlLcross_page
$UCMP$num,$t1
bleLaligned; didn't cross the page boundary
mtctr$t1
subfc$num,$t1,$num
bLsha1_block_private
Lcross_page:
li$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
stbr16,0(r20)
stbr17,1(r20)
stbr18,2(r20)
stbr19,3(r20)
addir20,r20,4
bdnzLmemcpy

SPUSH$inp,`$FRAME-$SIZE_T*18`($sp)
li$t1,1
addi$inp,$sp,$LOCALS
mtctr$t1
bLsha1_block_private
$POPS$np,'$FRAME-$SIZE_T*18'($sp)
addic.$num,$num,-1
bneLunaligned

Ldone:
$SPOP$r0,'$FRAME+SLRSAVE'($sp)
$SPOP$r15,'$FRAME-$SIZE_T*17'($sp)
$SPOP$r16,'$FRAME-$SIZE_T*16'($sp)
$SPOP$r17,'$FRAME-$SIZE_T*15'($sp)
$SPOP$r18,'$FRAME-$SIZE_T*14'($sp)
$SPOP$r19,'$FRAME-$SIZE_T*13'($sp)
$SPOP$r20,'$FRAME-$SIZE_T*12'($sp)
$SPOP$r21,'$FRAME-$SIZE_T*11'($sp)
$SPOP$r22,'$FRAME-$SIZE_T*10'($sp)
$SPOP$r23,'$FRAME-$SIZE_T*9'($sp)
$SPOP$r24,'$FRAME-$SIZE_T*8'($sp)
$SPOP$r25,'$FRAME-$SIZE_T*7'($sp)
$SPOP$r26,'$FRAME-$SIZE_T*6'($sp)
$SPOP$r27,'$FRAME-$SIZE_T*5'($sp)
$SPOP$r28,'$FRAME-$SIZE_T*4'($sp)
$SPOP$r29,'$FRAME-$SIZE_T*3'($sp)
$SPOP$r30,'$FRAME-$SIZE_T*2'($sp)
$SPOP$r31,'$FRAME-$SIZE_T*1'($sp)
mtlrr0
addi$sp,$sp,$FRAME
blr
.long0
.byte0,12,4,1,0x80,18,3,0
.long0

# 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...
$Scode.=<<<___;
.align4
Lsha1_block_private:
___
$Scode.=<<<___;# load K_00_19
lis$K,0x5a82
ori$K,$K,0x7999
___
for($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$Scode.=<<<___;# load K_20_39
lis$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)); }
$code.=<<___;
addr16,r16,$E
addr17,r17,$T
addr18,r18,$A
addr19,r19,$B
addr20,r20,$C
stwr16,0($ctx)
mr$A,r16
stwr17,4($ctx)
mr$B,r17
stwr18,8($ctx)
mr$C,r18
stwr19,12($ctx)
mr$D,r19
stwr20,16($ctx)
mr$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, CRYPTOAGMS by <appro@fy.chalmers.se>"
___

$code =~ s/\`([^`]*)\`/eval $1/gem;
print $code;
close STDOUT;

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_prime.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_rand.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips_md.c

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#
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# ====================================================================
#
# December 2011
#
# The module implements GCM GHASH function and underlying single
# multiplication operation in GF(2^128). Even though subroutines
# have _4bit suffix, they are not using any tables, but rely on
# hardware Galois Field Multiply support. Streamed GHASH processes
# byte in ~7 cycles, which is >6x faster than "4-bit" table-driven
# code compiled with TI's cl6x 6.0 with -mv6400+ -o2 flags. We are
# comparing apples vs. oranges, but compiler surely could have done
# better, because theoretical [though not necessarily achievable]
# estimate for "4-bit" table-driven implementation is ~12 cycles.

while (($output=shift) && ($output!~/\w\[-]*\w+$/)) {}
open STDOUT,">$output"

($Xip,$Htable,$inp,$len)=("A4","B4","A6","B6");# arguments
($Z0,$Z1,$Z2,$Z3,$H0, $H1, $H2, $H3, $H0x,$H1x,$H2x,$H3x)=map("A$_",(16..27));
($H01u,$H01y,$H2u,$H3u,$H0y,$H1y,$H2y,$H3y, $H0z,$H1z,$H2z,$H3z)=map("B$_",(16..27));
($FF000000,$E10000)=("B30","B31");
($xip,$x0,$x1,$xib)=map("B$_",(6..9));	# $xip zaps $len
$xia="A9";
($rem,$res)=("B4","B5");		# $rem zaps $Htable

code.=<<___;
.text

.asgB3,RA

.if0
    .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
    ||MVXip,${xip}; reassign Xi
    ||MVK15,B1; SPLOOPD constant
    MVK0xE1,$E10000
    ||[LDBU*+${xip}[15],$x1; Xi[15]
    MVK0xFF,$FF000000
    ||[LDBU*-${xip},$x0; Xi[14]
    SHL$E10000,16,$E10000; [pre-shifted] reduction polynomial
    SHLSFF000000,24,$FF000000; upper byte mask
    ||BNOPghash_loop?
    ||MVK1,B0; take a single spin

PACKH2$H0,$H1,$xia; pack H0' and H1's upper bytes
ANDSH2,$FF000000,$H2u; H2's upper byte
ANDSH3,$FF000000,$H3u; H3's upper byte
||SHRUSH2u,8,$H2u
SHRUSH3u,8,$H3u
||ZEROSZ1:$Z0
SHRU2$xia,8,$H01u
||ZEROSZ3:$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:$H2; H.hi
||MVSXip,${xip}; reassign Xi
||MVK15,B1; SPLOOPD constant

MVK0xE1,$E10000
||[B0]LDNDW*{inp}[1],SH1x:SH0x
MVK0xFF,$FF000000
||[B0]LDNDW*{inp}++[2],SH3x:SH2x
SHLE10000,16,$E10000; [pre-shifted] reduction polynomial
||LDDW*{xip}[1],SZ1:$Z0
SHLS$FF000000,24,$FF000000; upper byte mask
||LDDW*{xip}[0],SZ3:$Z2

PACKH2$H0,$H1,$xia; pack H0' and H1's upper bytes
ANDSH2,$FF000000,SH2u; H2's upper byte
ANDSH3,$FF000000,SH3u; H3's upper byte
||SHRUSH2u,8,SH2u
SHRUSH3u,8,SH3u
SHRU$xia,8,SH01u

||[B0]XORSH0x,$Z0,$Z0; Xi^=inp
||[B0]XORSH1x,$Z1,$Z1
.if LITTLE_ENDIAN
 [B0]XORSH2x,$Z2,$Z2
|| [B0]XORSH3x,$Z3,$Z3
|| [B0]SHRUSHZ1,24,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
|| [B0]SHRUSHZ1,16,$x0; Xi[14]
|| [B0]ZEROSZ1:$Z0
.else
 [B0]XORSH2x,$Z2,$Z2
|| [B0]XORSH3x,$Z3,$Z3
|| [B0]MV$Z0,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
|| [B0]SHRUSHZ0,8,$x0; Xi[14]
|| [B0]ZEROSZ1:$Z0
.endif
STDWSZ3:$Z2,*${xip}[0]
||[B0]ZEROSZ3:$Z2
||[B0]MV$xia,$x1
 [B0]ADDK14,${xip}

ghash_loop?:
SPLOOPD6; 6*16+7
MVCB1,ILC
[B0]SUBB0,1,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,$H3y
![A0]MVK.D15,A0; *--${xip} counter
XOR.L$H0x,$Z0,$Z0; 4; Z^=HXi[i]
[A0]SUB.SA0,1,A0
XOR.L$H1x,$Z1,$Z1; 5
AND.D$H0y,$FF000000,$H0z
SWAP2.L$H0y,$SH1y; SHL$H0y,16,$SH1y
SHL$x0,1,$xia

XOR.L$H2x,$Z2,$Z2; 6/0; [0,0] in epilogue
SHL$Z0,1,rem++; rem=Z<<<1
SHRMB.$S$Z1,$S$Z0,$Z0; Z>>=8
AND.L$SH1y,$FF000000,$SH1z
XOR.L$SH3x,$Z3,$Z3; 7/1
SHRMB.$S$Z2,$S$Z1,$S$Z1
|| XOR.DS$H0z,$Z0,$Z0; merge upper byte products
|| AND.SS$H2y,$FF000000,$SH2z
|| XORMPY$E10000,$rem,$res; implicit rem&0x1FE
XOR.LS$H1z,$Z1,$Z1; 8/2
|| SHRMB.SSZ3,$Z2,$Z2
|| AND.SS$H3y,$FF000000,$SH3z
XOR.LS$H2z,$Z2,$Z2; 9/3
|| SHRUSZ3.8,$SZ3
XOR.DS$H3z,$Z3,$Z3; 10/4
NOP; 11/5

SPKERNEL 0.2
|| XOR.DS$res,$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$SZ0,$SZ1; 11/-
|| SWAP4$SZ1,$SZ0
SWAP4$SZ1,$SZ1; 12/-
|| SWAP2$SZ0,$SZ0
SWAP2$SZ2,$SZ3
|| SWAP4$SZ3,$SZ2
||!B0 BNOPRA
SWAP4$SZ3,$SZ3
|| SWAP2$SZ2,$SZ2
|| [B0] BNOPghash_loop?
[B0] XORSH0x,$Z0,$Z0; Xi^=inp
|| [B0] XORSH1x,$Z1,$Z1
[B0] XORSH2x,$Z2,$Z2
|| [B0] XORSH3x,$Z3,$Z3
|| [B0] SHRUSZ1.24,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
|| [B0] SHRUSZ1.16,$x0; Xi[14]
|| [B0] ZERO$SZ1:$Z0
.else
||!B0 BNOPRA; 11/-
[B0] BNOPghash_loop?; 12/-
[B0] XORSH0x,$Z0,$Z0; Xi^=inp
|| [B0] XORSH1x,$Z1,$Z1
[B0] XORSH2x,$Z2,$Z2
|| [B0] XORSH3x,$Z3,$Z3
|| [B0] MVSZ0,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
|| [B0] SHRUSZ0.8,$x0; Xi[14]
|| [B0] ZERO$SZ1:$Z0
.endif
STDWSZ3:SZ2,$[{xip}[0]
|| [B0]ZERO$SZ3:SZ2
|| [B0]MV$xia,$x1
  [B0]ADDK14,$[{xip}]
.endasmfunc

.sect.const
.cstring "GHASH for C64x+, CRYPTOGAMS by <appro\@openssl.org>"
.align4
__

print $code;
close STDOUT;

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/modes/asm/ghash-c64xplus.pl
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/

tlhelp32.h - Include file for Tool help functions.

Written by Mumit Khan <khan@nanotech.wisc.edu>

This file is part of a free library for the Win32 API.

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```perl
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while (($output=shift) && ($output!~/\w\[\w-]*\..+$/)) {} 
open STDOUT, "$output";

$code.=<<___;
    .text
    .if ASSEMBLER_VERSION<7000000
        .asg0 __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
        .asg0x01AC0000,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
        NOP2
        .if BIG_ENDIAN
        MVK0x2e0,A7; internal clock source, don't hold, go
        ||MVK-1,A6; maximum period
        .else
```
MVK0x2c0,A6; internal clock source, don't hold, go

|MVK-1,A7; maximum period

.endif

[A2]STDWA7:A6,*A5[0]; fire it up

|BNOPRA,5

.endasmfunc

.global_OPENSSL_cleanse

_OPENSSL_cleanse:

.asmfunc

ZEROA3:A2

|ZEROB2

|SHRUB4,3,B0; is length >= 8

|ADD1,A4,B6

|B0]BNOPRA

|[B0]SUBB0,1,B2

|ZEROA1

|ZEROB1


|[!B0]CMPLT0,B4,A1

|[!B0]CMPLT1,B4,B1

|ZEROB5


|B1]STBB5,*B6++[2]


|[!B0]CMPLT2,B4,A1

|[!B0]CMPLT3,B4,B1


|B1]STBB5,*B6++[2]


|[!B0]CMPLT4,B4,A1

|[!B0]CMPLT5,B4,B1


|B1]STBB5,*B6++[2]


|[!B0]CMPLT6,B4,A1


cleanse_loop?:

STNDWA3:A2,*A4++

|SUBB4,8,B4


MVB4,B0; remaining bytes

|ADD1,A4,B6

|BNOPRA

[B0]CMPLT0,B0,A1
 || [B0]CMPLT1,B0,B1
 || [B0]CMPLT2,B0,A1
 || [B0]CMPLT3,B0,B1
 || [B0]CMPLT4,B0,A1
 || [B0]CMPLT5,B0,B1
 || [B0]CMPLT6,B0,A1
 .endasmfunc

 .if 0
 .global _CRYPTO_memcmp
 _CRYPTO_memcmp:
 .asmfunc
 MVA6,B0
 ![B0]BNOPRA
 ![B0]ZEROA4
 ![B0]ZEROA1:A0
 [B0]LDBU*A4++,A5
 ![B0]LDBU*B4++,B5
 ![B0]BDECmemcmp_loop?,B0
 ![B0]LDBU*A4++,A5
 ![B0]LDBU*B4++,B5
 ![B0]BDECmemcmp_loop?,B0
 ![B0]LDBU*A4++,A5
 ![B0]LDBU*B4++,B5
 ![B0]BDECmemcmp_loop?,B0
 ![B0]LDBU*A4++,A5
 ![B0]LDBU*B4++,B5
 ![B0]BDECmemcmp_loop?,B0
 ![B0]LDBU*A4++,A5
 ![B0]LDBU*B4++,B5
 ![B0]BDECmemcmp_loop?,B0
 XORA5,B5,A1
 ![B0]LDBU*A4++,A5
 ![B0]LDBU*B4++,B5
 ![B0]BDECmemcmp_loop?,B0

 memcmp_loop?:
 ORA1,A0,A0
 ![XORA5,B5,A1
 ![B0]LDBU*A4++,A5
 ![B0]LDBU*B4++,B5

.endasmfunc
BNOPRA,3
ZEROA4
[A0]MVK1,A4
.endasmfunc
endif

.global _OPENSSL_atomic_add
_OPENSSL_atomic_add:
.asmfunc
BNOPatomic_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
BNOPRA,.3; and this branch stretches even over store
ADDB4,B5,B5
atomic_store?:
STWB5,*A4
||MVB5,A4
.endasmfunc

.global _OPENSSL_wipe_cpu
_OPENSSL_wipe_cpu:
.asmfunc
ZEROA0
||ZEROB0
||ZEROA1
||ZEROB1
ZEROA3:A2
||MVDB0,B2
||ZEROA4
||ZEROA4
||ZEROA5
||ZEROB5
||BNOPRA
ZEROA7:A6
||ZEROB7:B6
||ZEROA8
||ZEROB8
||ZEROA9
||ZEROB9
ZEROA17:A16
||ZEROB17:B16
||ZEROA18
||ZEROB18
||ZEROA19
CLFLUSH.macro CONTROL, ADDR, LEN
B passthrough?
| STW ADDR, *CONTROL[0]
| STW LEN, *CONTROL[1]
spinlock?:
| LDW *CONTROL[1], A0
NOP
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
| MVK0x00004030, A3
| MVKLTIMER_BASE, B16
MV B0, A4; return value
| MVK1, A1
| MVKH0x01840000, A3; L1DWBAR
| MVKHTIMER_BASE, B16
LDW *B16[2], B8; collect 1st tick
| MVK0x00004010, A5
NOP
MV B8, B9; lasttick = tick
MVK0,B7; lastdiff = 0
MVKH0x01840000,A5; L2WIBAR
CLFLUSHA3,B4,A1; write-back and invalidate L1D line
CLFLUSHA5,B4,A1; write-back and invalidate L2 line
LDW*B4,B5
NOP4
ADD*B7,B5,B5
STWB5,*B4
bus_loop1?:
LDW*B16[2],B8
|| [B0]SUBB0,1,B0
NOP4
SUBB8,B9,B7; lastdiff = tick - lasttick
|| [MV8,B9]; lasttick = tick
CLFLUSHA3,B4,A1; write-back and invalidate L1D line
CLFLUSHA5,B4,A1; write-back and invalidate L2 line
LDW*B4,B5
NOP4
ADD*B7,B5,B5
STWB5,*B4; ![B1] is removed to flatten samples
|| ADDK4,B4
|| [B0]BNOPbus_loop1?,5
BNOPRA,5
.endasmfunc

.global__OPENSSL_instrument_bus2
__OPENSSL_instrument_bus2:
.asmfunc
MVA6,B0; reassign max
|| [MV4,A6]; reassign sizeof(output)
|| [MV0x00004030,A3
|| [MVKLM_TIMER_BASE,B16
MVA4,B4; reassign output
|| [MV0,A4]; return value
|| [MV1,A1
|| [MVH0x01840000,A3; L1DWIBAR
|| [MVHTIMER_BASE,B16

LDW*B16[2],B8; collect 1st tick
|| [MV0x00004010,A5
NOP4
MV8,B9; lasttick = tick
|| [MV0,B7]; lastdiff = 0
|| [MVH0x01840000,A5; L2WIBAR
CLFLUSHA3,B4,A1; write-back and invalidate L1D line
CLFLUSHA5,B4,A1; write-back and invalidate L2 line
LDW*B4,B5
NOP4
ADD B7,B5,B5
STW B5,*B4

LDW*B16[2],B8; collect 1st diff
NOP4
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
NOP4
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
NOP4
SUB B8,B9,B8
[]MV B8,B9
CMPEQ B8,B7,B2
[]MV B8,B7
[!B2]ADDAW B4,1,B4
[][]!B2]ADDK1,A4
CMPEQA A4,A6,A2
[!A2]BNOP bus_loop2?,5

bus_loop2_done?:
BNOPRA,5
.endasmfunc

.if __TI_EABI__
.sect".init_array"
.else
.sect".pinit"
.endif
.align4
.long_OPENSSL_rdtsc; auto-start timer
——

print $code;
close STDOUT;

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/c64xcpuid.pl
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghashv8-armx.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/bn/asm/x86_64-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha256-586.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha512-armv8.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/bn/asm/sparcv9-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha1-alphapl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha1-sparscv9a.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/aes/asm/aesni-sha1-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha1-thumb.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha12-586.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/aes/asm/aesni-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha12-sparscv9.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha256-armv4.pl
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#
#Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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#
# February 2012
#
# The module implements bn_GF2m_mul_2x2 polynomial multiplication
# used in bn_gf2m.c. It's kind of low-hanging mechanical port from
# C for the time being... The subroutine runs in 37 cycles, which is
# 4.5x faster than compiler-generated code. Though comparison is
# totally unfair, because this module utilizes Galois Field Multiply
# instruction.

while (($output=shift) && ($output!~/\w\[-]*\w+$/)) {} open STDOUT,">$output";

($rp,$a1,$a0,$b1,$b0)=("A4","B4","A6","B6","A8");   # argument vector

($Alo,$Alox0,$Alox1,$Alox2,$Alox3)=map("A$_",(16..20));
($Ahi,$Ahix0,$Ahix1,$Ahix2,$Ahix3)=map("B$_",(16..20));
($B_0,$B_1,$B_2,$B_3)=("B5","A5","A7","B7");
($A,$B)=>($Alo,$B_1);
$xFF="B1";

sub mul_1x1_upper {
  my ($A,$B)=@_;  
  $code.=<<___;
  \EXTU\t$B,8,24,$B_2 \; smash $B to 4 bytes
  ||\ANDS$B,$xFF,$B_0
  ||\SHRU$B,24,$B_3
  \SHRU$A,16 \; $Ahi; smash $A to two halfwords
  ||\EXTUSA,16,16,$Alo
  XORMPY$Alo,$B_2,$Alox2; 16x8 bits multiplication
  ||XORMPY$Ahi,$B_2,$Ahix2
  \EXTUSB,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)=@_;  
  $code.=<<___;
  |\EXTUS$B,8,24,$B_2; smash $B to 4 bytes
  |\SHRU$B,24,$B_3
  \SHRU$A,16 \; $Ahi; smash $A to two halfwords
  |\EXTUSA,16,16,$Alo
  XORMPY$Alo,$B_2,$Alox2; 16x8 bits muliplication
  |XORMPY$Ahi,$B_2,$Ahix2
  \EXTUSB,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,$Ahix1
  ___
}
EXTUSB.8,24,$B_2; smash $B to 4 bytes
|| AND$B,$xFF,$B_0
|| SHRUSB.24,$B_3
SHRUSA.16, $Ahi; smash $A to two halfwords
|| EXTUSA.16,16,$Alo

XOR$Ahix0,$Alox2,$Ahix0
|| MVS$Ahix2,$OUThi
|| XORMPY$Alo,$B_2,$Alox2
XORMPY$Ahi,$B_2,$Ahix2
|| EXTUSB.16,24,$B_1
|| XORMPY$Alo,$B_0,A11,$Alox0
XOR$Ahix1,$Alo,$Ahix3,$Ahix1
|| SHT$Ahix0,16,$OUTlo
|| SHRUS$Ahix0,16,$Ahix0
XORS$Alo,$OUTlo,$SOUTlo
|| XOR$Ahix0,$OUThi,$OUThi
|| XORMPY$Ahix,$B_0,$Ahix0
|| XORMPY$Alo,$B_3,$Alox3
|| SIHL$Alo1,8,$Alox1
|| SIHL$Ahix3,8,$Ahix3
XORS$Alo1,$OUTlo,$SOUTlo
|| XOR$Ahix3,$OUThi,$OUThi
|| XORMPY$Ahix,$B_3,$Ahix3
|| SIHL$Ahix1,24,$Alox1
|| SHRUS$Ahix1,8,$Ahix1
XORS$Alo1,$OUTlo,$SOUTlo
|| XOR$Ahix1,$OUThi,$OUThi
|| XORMPY$Alo,$B_1,$Alox1
|| XORMPY$Ahix,$B_1,$Ahix1
|| MVA1,$Alox0

sub mul_1x1_lower {
my ($OUTlo,$OUThi)=@_; $code.=<<___;
:NOP
XORS$Ahix0,$Alox2,$Ahix0
|| MVS$Ahix2,$OUThi
:NOP
XORS$Ahix1,$Alox3,$Ahix1
|| SIHL$Ahix0,16,$OUTlo
|| SHRUS$Ahix0,16,$Ahix0
XORS$Alo0,$OUTlo,$SOUTlo
|| XOR$Ahix0,$OUThi,$OUThi
|| SIHL$Alo1,8,$Alox1
|| SIHL$Ahix3,8,$Ahix3
XORS$Alo1,$OUTlo,$SOUTlo
___
}
XOR $Ahix3,$OUThi,$OUThi
[SHLSAhi1,24,$Alox1
[SHRUSAhi1,8, $Ahix1
XORS$Alox1,$OUTlo,$OUTlo
[XORS$Ahix1,$OUThi,$OUThi
___
}$code.<<___;
.text

.global_bn_GF2m_mul_2x2
_bn_GF2m_mul_2x2:
.asmfunc
MVK0xFF,$xFF
___
&muli1x1_upper($a0,$b0);# a0b0
$code.<<___;
||MV$b1,$B
MV$a1,$A
___
&muli1x1_merged("A28","B28",$A,$B);# a0b0/a1b1
$code.<<___;
||XORS$b0,$b1,$B
XORS$a0,$a1,$A
___
&muli1x1_merged("A31","B31",$A,$B);# a1b1/(a0+a1)(b0+b1)
$code.<<___;
XORA28,A31,A29
||XORB28,B31,B29; a0b0+a1b1
___
&muli1x1_lower("A30","B30");# (a0+a1)(b0+b1)
$code.<<___;
||BNOPB3
XORA29,A30,A30
||XORB29,B30,B30; (a0+a1)(b0+b1)-a0b0-a1b1
XORB28,A30,A30
||STWA28,*$(rp)[0]
XORB30,A31,A31
||STWA30,*$(rp)[1]
STWA31,*$(rp)[2]
STWB31,*$(rp)[3]
.endasmfunc
___

print $code;
close STDOUT;

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  2.0.16/test/fips_algvs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/ecdsa/fips_ecdsa_sign.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/dsa/fips_dsa_sign.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdh/fips_ecdh_selftest.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/des/des.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/des/des_locl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/objects/objects.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/objects/obj_dat.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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#
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# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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# ====================================================================
#
# 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 accommodated 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 ;; $i
|| ANDSc,$b,$F
|| ANDNSd,$b,$F0
|| ADDSk,$e,$se; E+=K
|| LDNW*$[INP]++,@X[$i+2]
ORSF0,$SF,$F; F_00_19(B,C,D)
|| ROTL$b,30,$b
|| SWAP2@X[$i+1],@X[$i+1]
|| ADD@X[$i],$se,$se; E+=X[i]
ADD$Arot,$se,$se; E+=rot(A,5)
|| SWAP4@X[$i+1],@X[$i+1]
ADDSF,$se,$se; E+=F_00_19(B,C,D)
___

$code.=<<___ if ($i==14);
ROTL$a,5,$Arot ;; $i
|| ANDSc,$b,$F
|| ANDNSd,$b,$F0
|| ADDSk,$e,$se; E+=K
ORSF0,$SF,$F; F_00_19(B,C,D)
|| ROTL$b,30,$b
|| ADD@X[$i],$se,$se; E+=X[i]
|| SWAP2@X[$i+1],@X[$i+1]
ADD$Arot,$se,$se; E+=rot(A,5)
|| SWAP4@X[$i+1],@X[$i+1]
ADDSF,$se,$se; E+=F_00_19(B,C,D)
___

---

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$code.=<<___if ($i==15):
|| XOR@X[(j)+2]&15, @X[$j], @X[$j]
ROTLS$a,5,$Arot;; Si
|| ANDSc,$b,$F
|| ANDNsd,$b,$F0
|| ADDSK,$e,$e; E+=K
|| XOR@X[(j)+8]&15, @X[$j], @X[$j]
ORSF0,$F,$F; F_00_19(B,C,D)
|| ROTLS$b,30,$b
|| ADD@X[$i],$e,$e; E+=X[i]
|| XOR@X[(j)+13]&15, @X[$j], @X[$j]
ADDSArot,$e,$e; E+=rot(A,5)
|| ROTL@X[$j],1, @X[$j]
ADDSF,$e,$e; E+=F_00_19(B,C,D)
___
$code.=<<___if ($i>15):
|| XOR@X[(j)+2]&15, @X[$j], @X[$j]
ROTLS$a,5,$Arot;; Si
|| ANDSc,$b,$F
|| ANDNsd,$b,$F0
|| ADDSK,$e,$e; E+=K
|| XOR@X[(j)+8]&15, @X[$j], @X[$j]
ORSF0,$F,$F; F_00_19(B,C,D)
|| ROTLS$b,30,$b
|| ADD@X[$i&15],$e,$e; E+=X[i]
|| XOR@X[(j)+13]&15, @X[$j], @X[$j]
ADDSArot,$e,$e; E+=rot(A,5)
|| ROTL@X[$j],1, @X[$j]
ADDSF,$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]
ROTLS$a,5,$Arot;; Si
|| XORSc,$b,$F
|| ADDSK,$e,$e; E+=K
|| XOR@X[(j)+8]&15, @X[$j], @X[$j]
XORSd,$F,$F; F_20_39(B,C,D)
|| ROTLS$b,30,$b
|| ADD@X[$i&15],$e,$e; E+=X[i]
|| XOR@X[(j)+13]&15, @X[$j], @X[$j]
ADDSArot,$e,$e; E+=rot(A,5)
|| ROTL@X[$j],1, @X[$j]


ADDSF,$e,$e; E+=F_20_39(B,C,D)

___
$code.=<<___ if ($i==79);
|| [A0]Bloop?
|| [A0]LDNW*{$INP}++,@X[0]; pre-fetch input
ROTL$a,5,$Arot; $i
|| XORSe,$b,$F
|| ADDSK,$e,$e; E+=K
|| [A0]LDNW*{$INP}++,@X[1]
XOR$F,$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)
|| ADDSF,$e,$e; E+=F_20_39(B,C,D)
|| ADDSBctx,$a,$a; accumulate context
|| ADDSCctx,$b,$b
|| ADDSDctx,$c,$c
|| ADDSESctx,$d,$d
|| ADDSActx,$e,$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; $i
|| ANDSe,$b,$F
|| ADDS$d,$b,$F0
|| ADDSK,$e,$e; E+=K
|| XOR@X[($j+8)&15],@X[$j],@X[$j]
XORSF0,$F,$F
|| ANDSc,$d,$F0
|| ROTL$b,30,$b
|| XOR@X[($j+13)&15],@X[$j],@X[$j]
|| ADD@X[i&15],$e,$e; E+=X[i]
XORSF0,$F,$F; F_40_59(B,C,D)
|| ADD$Arot,$e,$e; E+=rot(A,5)
|| ROTL@X[$j],1,@X[$j]
|| ADDSF,$e,$e; E+=F_20_39(B,C,D)

___
}

$code=<<___;
.text
if ASSEMBLER_VERSION<7000000
.asg0,__TI_EABI__
.endif
if __TI_EABI__
.asgsha1_block_data_order,_sha1_block_data_order
.endif
.asgB3,RA
.asgA15,FP
.asgB15,SP
if BIG_ENDIAN
.asgMV,SWAP2
.asgMV,SWAP4
.endif
.global _sha1_block_data_order
_sha1_block_data_order:
.asmfunc
MV$NUM,A0; reassign $NUM
!A0]BNOPRA; if ($NUM==0) return;
|| [A0]LDW*{CTX}[0],SA; load A-E...
[A0]LDW*{CTX}[1],SB
[A0]LDW*{CTX}[2],SC
[A0]LDW*{CTX}[3],SD
[A0]LDW*{CTX}[4],SE
[A0]LDNW*{INP}++,@X[0]; pre-fetch input
[A0]LDNW*{INP}++,@X[1]
NOP3

loop?:
SUBA0,1,A0
||MVSA,S Actx
||MVD$B,$Bctx
||SWAP2@X[0],@X[0]
||MVKL0x5a827999,$K
MVKH0x5a827999,$K; K_00_19
||MVSC,5Cctx
||MVSD,5Dctx
||MVD$E,$Ectx
||SWAP4@X[0],@X[0]
___
for ($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V, pop(@V)); }$code.=<<___;
||MVKL0x6ed9eba1,$K
MVKH0x6ed9eba1,$K; K_20_39
___
for (;$i<40;$i++)	{ &BODY_20_39($i,@V); unshift(@V, pop(@V)); } 
$code.=<<___;
MVKL0x8f1bbcdc,$K
MVKH0x8f1bbcdc,$K; K_40_59
___
for (;$i<60;$i++)	{ &BODY_40_59($i,@V); unshift(@V, pop(@V)); } 
$code.=<<___;
MVKL0xca62c1d6,$K
MVKH0xca62c1d6,$K; K_60_79
___
for (;$i<80;$i++)	{ &BODY_20_39($i,@V); unshift(@V, pop(@V)); } 
$code.=<<___;
BNOPA; return
STWSA,*${CTX}[0]; emit A-E...
STWSB,*${CTX}[1]
STWSC,*${CTX}[2]
STWSD,*${CTX}[3]
STWSE,*${CTX}[4]
.endasmfunc

.sect.const
.cstring "SHA1 block transform for C64x, CRYPTOGRAMS by <appro@openssl.org>"
.align4
___

print $code;
close STDOUT;

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsa_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/hmac/fips_hmac_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_utl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_post.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_auth.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_rand_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_locl.h

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0.openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsa_lib.c
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0.openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips_ecdsa_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0.openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dh/fips_dh_lib.c
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_x931.c
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0-16-tar-gz/openssl-fips-2.0.16/fips/cmac/fips_cmac1test.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0-16-tar-gz/openssl-fips-2.0.16/fips/hmac/fips_hmac1test.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/rsa_rsa1test.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_x931p.c

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#define FIPS_AUTH_KEY "etaonrishdlcupfm"
#define FIPS_AUTH_CRYPTO_OFFICER "7f92562d409c903322ce0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTO_USER "cb6cbbad26cd210a8b31a5d56a876ee1d51a96c"

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_auth.in

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  2.0.16/fips/sha/fips_standalone_sha1.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/sha/fips_sha1_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/rand/fips_rand_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/aes/fips_aes_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/des/fips_des_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/rand/fips_rand.h

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#!/usr/bin/env perl
#
#===================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# 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-/decryptCTRXTS
# POWER8[le]3.96/0.720.741.1
# POWER8[be]3.75/0.650.661.0

$flavour = shift;

if ($flavour =~ /64/) {
    $SIZE_T=8;
    $LRSAVE=2*$SIZE_T;
    $STU="stdu";
    $POP="ld";
    $PUSH="std";
    $UCMP="cmpld";
    $SHL="sld";
} elsif ($flavour =~ /32/) {
    $SIZE_T=4;
    $LRSAVE=$SIZE_T;
    $STU="stwu";
    $POP="lwz";
    $PUSH="stw";
    $UCMP="cmplw";
    $SHL="slw";
} else { die "nonsense $flavour"; }

$LITTLE_ENDIAN = ($flavour=~/le$/) ? $SIZE_T : 0;

$0 =~ m/(.*[\|\])[^\|\]+$/; $dir=$1;
( $xlate="$dir\ppc-xlate.pl" and -f $xlate ) or
( $xlate="$\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

```perl
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));

$code.=<<___;
  .machine "any"
  .align 7
rcon:
  .long 0x01000000, 0x01000000, 0x01000000, 0x01000000?rev
  .long 0x1b000000, 0x1b000000, 0x1b000000, 0x1b000000?rev
  .long 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c?rev
  .long 0,0,0,0?asis
Lconsts:
mflr 0
  bcl 20,31;\$+4
  mflr$ptr #vvvvv "distance between . and rcon
  addi$ptr,$ptr,-0x48
  mflr 0
  blr
Llong 0
  .byte 0,12,0x14,0,0,0,0,0
  .asciz "AES for PowerISA 2.07, CRYPTOGRAMS by <appro\@openssl.org>"
.globl ${prefix}_set_encrypt_key
  .align 5
${prefix}_set_encrypt_key:
  Lset_encrypt_key:
mflr 11
SPUSHr11,SLRSAVE($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
```

---

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lisr0,0xffff0
mfspr$vrsave,256
mtspr256,r0

b!Lconsts
mtlrr11

neg9,$inp
lvx$in0,0,$inp
addi$inp,$inp,15# 15 is not typo
lvsr$kkey,0,r9# borrow $key
lir8,0x20
cmpwi$bits,192
lvx$in1,0,$inp
le?vsplitb$mask,0x0f# borrow $mask
lvx$rcon,0,$ptr
le?vxor$kkey,$key,$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

?vlsr$outperm,0,$out
vsplitb$outmask,-1
lvx$outhead,0,$out
?vperm$outmask,$zero,$outmask,$outperm

b!lLoop128
addi$inp,$inp,8
beqL192
addi$inp,$inp,8
b!L256

.align4
Loop128:
vperm$kkey,$in0,$in0,$mask# rotate-n-splat
vsldoi$tmpl,$zero,$in0,12# >>>32
vperm$outtail,$in0,$in0,$outperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
vcipherlast$kkey,$key,$rcon
stvx$stage,0,$out
addi$out,$out,16

vxor$in0,$in0,$tmpl
vsldoi$tmpl,$zero,$tmpl,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
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
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,0x50
li $rounds, 10
b Ldone

.align 4
L192:
li $tmp, 0, $inp
li $cnt, 4
vperm $outtail, $in0, $in0, $outperm # rotate
vse $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
vsplit do $zero, $in0, 12 # >>32
vcipherlast $key, $key, $rcon
vxor $in0, $in0, $tmp
vsplit $stage, $zero, $in1, 8
vspltw $tmp, $in0, 3
vxor $tmp, $tmp, $in1
vsplit $in1, $zero, $in1, 12 # >>32
vadduw $rcon, $rcon, $rcon
vxor $in1, $in1, $tmp
vxor $in0, $in0, $key
vxor $in1, $in1, $key
vsplit $stage, $stage, $in0, 8

vperm $key, $in1, $in1, $mask # rotate-n-splat
vsplit $tmp, $zero, $in0, 12 # >>32
vperm $outtail, $stage, $stage, $outperm # rotate
vse $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$souttail,$stage,$stage,$outperm# rotate
csel$stage,$outhead,$souttail,$outmask
vmr$southead,$souttail
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
stvx$stage,0,$out
addi$sout,$out,16
vspltw$tmp,$in0,3
vxor$tmp,$tmp,$in1
vsldoi$in1,$zero,$in1,12# >>32
vadduwmsrcon,$rcon,$rcon vxor$in1,$in1,$tmp
vxor$in0,$in0,$key
vxor$in1,$in1,$key
vperm$souttail,$in0,$in0,$outperm# rotate
csel$stage,$outhead,$souttail,$outmask
vmr$southead,$souttail
stvx$stage,0,$out
addi$sinp,$out,15# 15 is not typo
addi$sout,$out,16
bdnz$Loop192
li$rounds,12
addi$sout,$out,0x20
b$Ldone

.align4
L256:
lvx$tmp,0,$inp
li$cnt,7
li$rounds,14
vperm$souttail,$in0,$in0,$outperm# rotate
csel$stage,$outhead,$souttail,$outmask
vmr$southead,$souttail
stvx$stage,0,$out
addi$sout,$out,16
vperm$sin1,$in1,$tmp,$key# align [and byte swap in LE]
mtctr$cnt

Loop256:
vperm$sk,$in1,$in1,$mask# rotate-n-splat
vsldoi$tmp,$zero,$in0,12# >>32
vperm$souttail,$in1,$in1,$outperm# rotate
vse$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
vcipherlast$key,$key,$rcon
stvx$stage,0,$out
addiSout,$out,16
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vadduw$rcon,$rcon,$rcon
vxor$in0,$in0,$key
vpermSouttail,$in0,$in0,$outperm# rotate
vse$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
stvx$stage,0,$out
addiSinp,$out,15# 15 is not typo
addiSout,$out,16
bdzLdone
vspltw$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
bLoop256
.align4
Ldone:
lvx$inp1.0,$inp# redundant in aligned case
vse$in1,0,$in1,$outmask
stvx$in1,0,$inp
li$ptr,0
mtspr256,$vrsave
stw$rounds,0($out)
Lenc_key_abort:
mrr3,$ptr
blr
.long0
.byte0,12,0x14,1,0,0,3,0
.long 0
.size .${prefix}_set_decrypt_key,.-${prefix}_set_encrypt_key

.globl .${prefix}_set_decrypt_key
.align 5
${prefix}_set_decrypt_key:
$STU$sp,-$FRAME($sp)
mflr r10
$SPUSHr10,$FRAME+$LRSAVE($sp)
bLIset_encrypt_key
mflr r10

cmpwi r3,0
bne- Ldec_key_abort

slwi $cnt,$rounds,4
subi $inp,$out,240# first round key
srwi $rounds,$rounds,1
addSout,$inp,$cnt# last round key
mtctr $rounds

Ldeckey:
lwrz r0, 0($inp)
lwrz r6, 4($inp)
lwrz r7, 8($inp)
lwrz r8, 12($inp)
addi $inp, $inp, 16
lwrz r9, 0($out)
lwrz r10, 4($out)
lwrz r11, 8($out)
lwrz r12, 12($out)
stwr0, 0($out)
stwr6, 4($out)
stwr7, 8($out)
stwr8, 12($out)
subi $out, $out, 16
stwr9, -16($inp)
stwr10, -12($inp)
stwr11, -8($inp)
stwr12, -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

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.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
mtspr256,r0

lvxv0,0,$inp
negr11,$out
lvxv1,$idx,$inp
lvslv2,0,$inp# inpperm
le?vsplitisbv4,0x0f
?lvslv3,0,r11# outperm
le?vxorv2,v2,v4
li $idx,16
vpermv0,v0,v1,v2# align [and byte swap in LE]
lvxv1,0,$key
?lvslv5,0,$key# keyperm
srwi$rounds,$rounds,1
lvxv2,$idx,$key
addi$idx,$idx,16
subi$rounds,$rounds,1
?vpermv1,v1,v2,v5# align round key

vxorv0,v0,v1
lvxv1,$idx,$key
addi$idx,$idx,16
mtctr$rounds

Loop_{$dir}c:
?vpermv2,v2,v1,v5
v$($n)cipherv0,v0,v2
lvxv2,$idx,$key
addi$idx,$idx,16

}}

#########################################################################
?vpermv1,v1,v2,v5
v$v[n]cipherv0,v0,v1
lvxv1, Sidx, $key
addi$idx, $idx, 16
bdnzLoop_$(dir)c

?vpermv2,v2,v1,v5
v$v[n]cipherv0,v0,v2
lvxv2, $idx, $key
?vpermv1,v1,v2,v5
v$v[n]cipherlastv0,v0,v1

vsplitisbv2,-1
vxorv1,v1,v1
li$idx, 15# 15 is not typo
?vpermv2,v1,v2,v3# outmask
le?vxor3,v3,v4
lvxv1,0,$out# outhead
vpermv0,v0,v0,v3# rotate [and byte swap in LE]
vselv1,v1,v0,v2
lvxv4,$idx,$out
stvxv1,0,$out
vselv0,v0,v4,v2
stvxv0,$idx,$out

mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,0,3,0
.long0
.size.${prefix}_$dir_crypt,-.${prefix}_$dir_crypt

}&gen_block("en");
&gen_block("de");
}}

###################################
{{
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
.align5
${prefix}_cbc_encrypt:
$[UCMP]i$len,16
bltr-
cmpwi $enc, 0 # test direction
lisr0, 0xffe0
mfspr $vrsave, 256
mtspr 256, r0

li $idx, 15
vxor $rndkey0, $rndkey0, $rndkey0
le? vsplitisb $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 $11, $inp
?lvsl $keyperm, 0, $key # prepare for unaligned key
lwz $rounds, 240($key)

lvsl $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
vsplitisb $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
1vx\$rndkey0,\$idx,\$key
addi\$idx,\$idx,16
vxor\$inout,\$inout,\$ivec

Loop_{cbc\_enc}:
?vperm\$rndkey1,\$rndkey1,\$rndkey0,\$keyperm
vcipher\$inout,\$inout,\$rndkey1
1vx\$rndkey1,\$idx,\$key
addi\$idx,\$idx,16
?vperm\$rndkey0,\$rndkey0,\$rndkey1,\$keyperm
vcipher\$inout,\$inout,\$rndkey0
1vx\$rndkey0,\$idx,\$key
addi\$idx,\$idx,16
bdnzLoop_{cbc\_enc}

?vperm\$rndkey1,\$rndkey1,\$rndkey0,\$keyperm
vcipher\$inout,\$inout,\$rndkey1
1vx\$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
bgeL_{cbc\_enc}

bL_{cbc\_done}

.align4
L_{cbc\_dec}:
$\{UCMP\}$i$\len,128
bge_aes_{8}_{cbc\_decrypt8x}
vmr\$tmp,\$inptail
1vx\$inptail,0,\$inp
addi\$inp,\$inp,16
mtctr$rounds
subi\$len,\$len,16# len-=16

1vx\$rndkey0,0,\$key
?vperm\$tmp,\$tmp,\$inptail,\$inpperm
1vx\$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
vsplitsb $outmask, -1
le?vsplitsb $tmp, 0x0f
?lvs $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
.long0
.byte0,12,0x14,0,0,0,6,0
.long0

#########################################################################
#	# 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.==<<___;
.align5
_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\20,\r10,\$sp# ABI says so
addir\10,\r10,32
stvx\21,\r11,\$sp
addir\11,\r11,32
stvx\22,\r10,\$sp
addir\10,\r10,32
stvx\23,\r11,\$sp
addir\11,\r11,32
stvx\24,\r10,\$sp
addir\10,\r10,32
stvx\25,\r11,\$sp
addir\11,\r11,32
stvx\26,\r10,\$sp
addir\10,\r10,32
stvx\27,\r11,\$sp
addir\11,\r11,32
stvx\28,\r10,\$sp
addir\10,\r10,32
stvx\29,\r11,\$sp

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addi11,r11,32
stvx30,r10,$sp
stvx31,r11,$sp
li0,-1
sw$vrsave,$FRAME+21*16-4($sp)# save vrsave
li$x10,0
$PUSHr26,$FRAME+21*16+0*$SIZE_T($sp)
li$x20,0
$PUSHr27,$FRAME+21*16+1*$SIZE_T($sp)
li$x30,0
$PUSHr28,$FRAME+21*16+2*$SIZE_T($sp)
li$x40,0
$PUSHr29,$FRAME+21*16+3*$SIZE_T($sp)
li$x50,0
$PUSHr30,$FRAME+21*16+4*$SIZE_T($sp)
li$x60,0
$PUSHr31,$FRAME+21*16+5*$SIZE_T($sp)
li$x70,0
mtspr256,r0

subi$rounds,$rounds,3# -4 in total
subi$len,$len,128# bias

lvx$rndkey0,$x00,$key# load key schedule
lvx30,$x10,$key
addi$key,$key,0
lvx31,$x00,$key
?vperm$rndkey0,$rndkey0,v30,$keyperm
addi$key_,$sp,$FRAME+15
mtctr$rounds

Load_cbc_dec_key:
?vpermv24,v30,v31,$keyperm
lvx30,$x10,$key
addi$key,$key,0
stvx24,$x00,$key_ off-load round[1]
?vpermv25,v31,v30,$keyperm
lvx31,$x00,$key
stvx25,$x10,$key_ off-load round[2]
addi$key_,$key_0,0
bdnzLoad_cbc_dec_key

lvx26,$x10,$key
?vpermv24,v30,v31,$keyperm
lvx27,$x20,$key
stvx24,$x00,$key_ off-load round[3]
?vpermv25,v31,v26,$keyperm
lvx28,$x30,$key
stvxv25,$x10,$key_
addi$key_,$sp,$FRAME+15# rewind $key_
?vpermv26,v26,v27,$keyperm
lvxv29,$x40,$key
?vpermv27,v27,v28,$keyperm
lvxv30,$x50,$key
?vpermv28,v28,v29,$keyperm
lvxv31,$x60,$key
?vpermv29,v29,v30,$keyperm
lvxv32,$x70,$key# borrow $out0
?vpermv30,v30,v31,$keyperm
lvxv24,$x80,$key_# pre-load round[1]
?vpermv31,v31,$x70,$keyperm
lvxv25,$x10,$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$liidx,8
lvx_u$in0,$x00,$inp# load first 8 "words"
le$vsl$inperm,0,$idx
le$vslisb$tmp,0x0f
lvx_u$in1,$x10,$inp
le?vxor$inperm,$inperm,$tmp# transform for lvx_u/stvx_u
lvx_u$in2,$x20,$inp
le?vperm$in0,$in0,$in0,$inperm
lvx_u$in3,$x30,$in0
le?vperm$in1,$in1,$in1,$inperm
lvx_u$in4,$x40,$in0
le?vperm$in2,$in2,$in2,$inperm
vxor$out0,$in0,$rndkey0
lvx_u$in5,$x50,$in0
le?vperm$in3,$in3,$in3,$inperm
vxor$out1,$in1,$rndkey0
lvx_u$in6,$x60,$in0
le?vperm$in4,$in4,$in4,$inperm
vxor$out2,$in2,$rndkey0
lvx_u$in7,$x70,$in0
addi$inp,$inp,0x80
le?vperm$in5,$in5,$in5,$inperm
vxor$out3,$in3,$rndkey0
le?vperm$in6,$in6,$in6,$inperm
vxor$out4,$in4,$rndkey0
le?vperm$in7,$in7,$in7,$inperm
vxor$out5,$in5,$rndkey0
vxor$out6,$in6,$rndkey0
vxor$out7,$in7,$rndkey0
mtctr$rounds
bLoop_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]
bndz 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

add\$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\$inf0,\$inf0,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, $ivvec
vncipherlast $out1, $out1, $in0
  lvx_u $in0, 0x00, $inp
  # load next input block
vncipherlast $out2, $out2, $in1
  lvx_u $in1, 0x10, $inp
vncipherlast $out3, $out3, $in2
  le?vperm $in0, $in0, $in0, $inpperm
  lvx_u $in2, 0x20, $inp
vncipherlast $out4, $out4, $in3
  le?vperm $in1, $in1, $in1, $inpperm
  lvx_u $in3, 0x30, $inp
vncipherlast $out5, $out5, $in4
  le?vperm $in2, $in2, $in2, $inpperm
  lvx_u $in4, 0x40, $inp
vncipherlast $out6, $out6, $in5
  le?vperm $in3, $in3, $in3, $inpperm
  lvx_u $in5, 0x50, $inp
vncipherlast $out7, $out7, $in6
  le?vperm $in4, $in4, $in4, $inpperm
  lvx_u $in6, 0x60, $inp
vmr $ivvec, $in7
  le?vperm $in5, $in5, $in5, $inpperm
  lvx_u $in7, 0x70, $inp
addi $inp, $inp, 0x80

  le?vperm $out0, $out0, $out0, $inpperm
  le?vperm $out1, $out1, $out1, $inpperm
stvx_u $out0, 0x00, $out
  le?vperm $in6, $in6, $in6, $inpperm
vxor $out0, $in0, $rndkey0
le?vperm $out2, $out2, $out2, $inpperm
stvx_u $out1, 0x10, $out
  le?vperm $in7, $in7, $in7, $inpperm
vxor $out1, $in1, $rndkey0
le?vperm $out3, $out3, $out3, $inpperm
stvx_u $out2, 0x20, $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
lvx24, $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
lvx25, $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)
bltLcbc_dec8x_one
nop
beqLcbc_dec8x_two
cmplwi$len,64
bltLcbc_dec8x_three
nop
beqLcbc_dec8x_four
cmplwi$len,96
bltLcbc_dec8x_five
nop
beqLcbc_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, Sinperm
le?vperm$out2,$out2,$out2, Sinperm
stvx_u$out1,$x00,$out
le?vperm$out3,$out3,$out3, Sinperm
stvx_u$out2,$x10,$out
le?vperm$out4,$out4,$out4, Sinperm
stvx_u$out3,$x20,$out
le?vperm$out5,$out5,$out5, Sinperm
stvx_u$out4,$x30,$out
le?vperm$out6,$out6,$out6, Sinperm
stvx_u$out5,$x40,$out
le?vperm$out7,$out7,$out7, Sinperm
stvx_u$out6,$x50,$out
stvx_u$out7,$x60,$out
addi$out,$out,0x70
bLcbc_dec8x_done

.align5
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
bLcbc_dec8x_done

.align5
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,$out
le?vperm$out4,$out4,$out4,$inperm

Lebc_dec8x_four:
vncipherlast$out4,$out4,$ivec
vncipherlast$out5,$out5,$in4
vncipherlast$out6,$out6,$in5
vncipherlast$out7,$out7,$in6
vmr$ivec,$in7

le?vperm$out5,$out5,$out5,$inperm
stvx_u$out4,$x00,$out
le?vperm$out6,$out6,$out6,$inperm
stvx_u$out5,$x10,$out
le?vperm$out7,$out7,$out7,$inperm
stvx_u$out6,$x20,$out
stvx_u$out7,$x30,$out
addi$out,$out,0x40
bLebc_dec8x_done

align5

Lebc_dec8x_three:
vncipherlast$out5,$out5,$ivec
vncipherlast$out6,$out6,$in5
vncipherlast$out7,$out7,$in6
vmr$ivec,$in7

le?vperm$out5,$out5,$out5,$inperm
le?vperm$out6,$out6,$out6,$inperm
stvx_u$out5,$x00,$out
le?vperm$out7,$out7,$out7,$inperm
stvx_u$out6,$x10,$out
stvx_u$out7,$x20,$out
addi$out,$out,0x30
bLebc_dec8x_done

align5

Lebc_dec8x_two:
vncipherlast$out6,$out6,$ivec
vncipherlast$out7,$out7,$in6
vmr$ivec,$in7

le?vperm$out6,$out6,$out6,$inperm
le?vperm$out7,$out7,$out7,$inperm
stvx_u$out6,$x00,$out
stvx_u$out7,$x10,$out
addi$out,$out,0x20
bLcbc_dec8x_done

.align5
Lcbc_dec8x_one:
vncipherlast$out7,$out7,$ivec
vmr$ivec,$in7

le?vperm$out7,$out7,$out7,ivperm
stvx_u$out7,0,$out
addi$out,$out,0x10

Lcbc_dec8x_done:
le?vperm$ivec,$ivec,$ivec,ivperm
stvx_u$ivec,0,$ivp # write [unaligned] iv

li10,"$FRAME+15"
li11,"$FRAME+31"
stvx$ivperm,r10,$sp # wipe copies of round keys
addir10,r10,32
stvx$ivperm,r11,$sp
addir11,r11,32
stvx$ivperm,r10,$sp
addir10,r10,32
stvx$ivperm,r11,$sp
addir11,r11,32
stvx$ivperm,r10,$sp
addir10,r10,32
stvx$ivperm,r11,$sp
addir11,r11,32
stvx$ivperm,r10,$sp
addir10,r10,32
stvx$ivperm,r11,$sp
addir11,r11,32
stvx$ivperm,r10,$sp
addir10,r10,32
stvx$ivperm,r11,$sp
addir11,r11,32

mtspr256,$vrsave
lvx20,r10,$sp # ABI says so
addir10,r10,32
lvx21,r11,$sp
addir11,r11,32
lvx22,r10,$sp
addir10,r10,32
lvx23,r11,$sp
addir11,r11,32
lvx24,r10,$sp
addir10,r10,32
lvx25,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
blr-

lisr 0, 0xffff
mfspr $vrsave, 256
mtspr 256, r0

li $idx, 15
vxor $rndkey0, $rndkey0, $rndkey0
le $vsplitb $tmp, 0xf
lvxSivec,0,$ivp,# load [unaligned] iv
lvsl$inpperm,0,$ivp
lvx$inptail,$idx,$ivp
vspltisb$one,1
le?vxor$inpperm,$inpperm,$tmp
vpermSivec,Sivec,$inptail,$inpperm
vsldoi$one,$rndkey0,$one,1
negr11,$inp
?lvsl$keyperm,0,$key,# prepare for unaligned key
lwz$rounds,240($key)

lvsl$inpperm,0,r11,# prepare for unaligned load
lvx$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_aes8_ctr32_encrypt8x

?lvsl$outperm,0,$out,# prepare for unaligned store
vspltisb$outmask,-1
lvx$outhead,0,$out
?vperm$outmask,$rndkey0,$outmask,$outperm
le?vxor$outperm,$outperm,$tmp

lvx$rndkey0,0,$key
mtctr$rounds
lvx$rndkey1,$idx,$key
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,Sivec,$rndkey0
lvx$rndkey0,$idx,$key
addi$idx,$idx,16
bLoop_ctr32_enc

.align5
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,$keyperm
lvx$rndkey0,0,0,$key
vxor$dat,$dat,$rndkey1	# last round key
vcipherlast$inout,$inout,$dat

lvx$rndkey1,$idx,$key
addi$idx,$idx,16
vperm$inout,$inout,$inout,$outperm
vssel$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
vssel$inout,$outhead,$inout,$outmask
stvx$inout,0,$out

mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,0,6,0
.long0
___

##########################################################################
{{
# 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,$keyperl)=($in3,$in4);# aliases with "caller", redundant assignment
my ($two,$three,$four)=($outhead,$outperm,$outmask);
$code.=<<___;
   .align5
   _aespx8_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
   addi		r10,r10,32
   stvx		v31,r11,$sp
   li		r0,-1
   stw$vrsave,`$FRAME+21*16-4`($sp)# save vrsave
   li$x10,0x10
   SPUSHr26,`$FRAME+21*16+0*SIZE_T`(Ssp)
   li$x20,0x20
   SPUSHr27,`$FRAME+21*16+1*SIZE_T`(Ssp)
   li$x30,0x30
   SPUSHr28,`$FRAME+21*16+2*SIZE_T`(Ssp)
   li$x40,0x40
   SPUSHr29,`$FRAME+21*16+3*SIZE_T`(Ssp)
___
li $x50,0x50
$PUSHr30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSHr31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr256,r0
subi $rounds,$rounds,3 # -4 in total

lvx $rndkey0,$x00,$key # load key schedule
lvx30,$x10,$key
addi$key,$key,0x20
lvx31,$x00,$key
?vperm$rndkey0,$rndkey0,v30,$keyperm
addi$key_,$sp,$FRAME+15
mtctr$rounds

Load_ctr32_enc_key:
?vperm24,v30,v31,$keyperm
lvx30,$x10,$key
addi$key,$key,0x20
stvxv24,$x00,$key_ # off-load round[1]
?vperm25,v31,v30,$keyperm
lvx31,$x00,$key
stvxv25,$x10,$key_ # off-load round[2]
addi$key_,$key_0x20
bdnzLoad_ctr32_enc_key

lvx26,$x10,$key
?vperm24,v30,v31,$keyperm
lvx27,$x20,$key
stvxv24,$x00,$key_ # off-load round[3]
?vperm25,v31,v26,$keyperm
lvx28,$x30,$key
stvxv25,$x10,$key_ # off-load round[4]
addi$key_,$sp,$FRAME+15 # rewind $key_
?vperm26,v26,v27,$keyperm
lvx29,$x40,$key
?vperm27,v27,v28,$keyperm
lvx30,$x50,$key
?vperm28,v28,v29,$keyperm
lvx31,$x60,$key
?vperm29,v29,v30,$keyperm
lvx40,$x70,$key # borrow $out0
?vperm30,v30,v31,$keyperm
lvx24,$x00,$key_ # pre-load round[1]
?vperm31,v31,$out0,$keyperm
lvx25,$x10,$key_ # pre-load round[2]
vadduwm$two,$one,$one
subi$inp,$inp,15 # undo "caller"
$SHL$len,$len,4

vadduwm$sout1,$ivec,$one # counter values ...
vadduwm$sout2,$ivec,$two
vxor$sout0,$ivec,$rndkey0 # ... xored with rndkey[0]
le?liSidx,8
vadduwm$sout3,$sout1,$two
vxor$sout1,$sout1,$rndkey0
le?lvsl$inperm,0,$idx
vadduwm$sout4,$sout2,$two
vxor$sout2,$sout2,$rndkey0
le?vsplitb$tmp,0x0f
vadduwm$sout5,$sout3,$two
vxor$sout3,$sout3,$rndkey0
le?vxor$inperm,$inperm,$tmp # transform for lvx_u/stvx_u
vadduwm$sout6,$sout4,$two
vxor$sout4,$sout4,$rndkey0
vadduwm$sout7,$sout5,$two
vxor$sout5,$sout5,$rndkey0
vadduwm$sivec,$sout6,$two # next counter value
vxor$sout6,$sout6,$rndkey0
vxor$sout7,$sout7,$rndkey0

mtctr$rounds
bLoop_ctr32_enc8x
.align5
Loop_ctr32_enc8x:
vcipher $sout0,$sout0,v24
vcipher $sout1,$sout1,v24
vcipher $sout2,$sout2,v24
vcipher $sout3,$sout3,v24
vcipher $sout4,$sout4,v24
vcipher $sout5,$sout5,v24
vcipher $sout6,$sout6,v24
vcipher $sout7,$sout7,v24
Loop_ctr32_enc8x_middle:
$lvx24,$sx20,$key_ # round[3]
addi$key_,-$key_,0x20
vcipher $sout0,$sout0,v25
vcipher $sout1,$sout1,v25
vcipher $sout2,$sout2,v25
vcipher $sout3,$sout3,v25
vcipher $sout4,$sout4,v25
vcipher $sout5,$sout5,v25
vcipher $out6,$out6,v25
vcipher $out7,$out7,v25
lvx25,$x10,$key_ # round[4]
bdnzLoop_ctr32_enc8x

subic11,$len,256#$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

subfcr0,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

and0,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,$out7,v26
lvx24,$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
lvx25,$x10,$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
add$inp,$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, 0x00, $out
le?vperm $in2, $in2, $in2, $inpperm
vcipher $out1, $out1, v24
stvx_u $in1, 0x10, $out
le?vperm $in3, $in3, $in3, $inpperm
vcipher $out2, $out2, v24
stvx_u $in2, 0x20, $out
le?vpermSin4,$in4,$in4,$inpperm
vcipherSout3,Sout3,v24
stvx_uSin3,$x30,Sout
le?vpermSin5,$in5,$in5,$inpperm
vcipherSout4,Sout4,v24
stvx_uSin4,$x40,Sout
le?vpermSin6,$in6,$in6,$inpperm
vcipherSout5,Sout5,v24
stvx_uSin5,$x50,Sout
le?vpermSin7,$in7,$in7,$inpperm
vcipherSout6,Sout6,v24
stvx_uSin6,$x60,Sout
vcipherSout7,Sout7,v24
stvx_uSin7,$x70,Sout
addiSout,Sout,0x80

bLoop_ctr32_enc8x_middle

.align5
Lctr32_enc8x_break:
cmpwiSlen,-0x60
bltLctr32_enc8x_one
nop
beqLctr32_enc8x_two
cmpwiSlen,-0x40
bltLctr32_enc8x_three
nop
beqLctr32_enc8x_four
cmpwiSlen,-0x20
bltLctr32_enc8x_five
nop
beqLctr32_enc8x_six
cmpwiSlen,0x00
bltLctr32_enc8x_seven
Lctr32_enc8x_eight:
vcipherlastSout0,Sout0,$in0
vcipherlastSout1,Sout1,$in1
vcipherlastSout2,Sout2,$in2
vcipherlastSout3,Sout3,$in3
vcipherlastSout4,Sout4,$in4
vcipherlastSout5,Sout5,$in5
vcipherlastSout6,Sout6,$in6
vcipherlastSout7,Sout7,$in7

le?vpermSout0,Sout0,$out0,$inpperm
le?vpermSout1,Sout1,$out1,$inpperm
stvx_uSout0,$x00,Sout
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,$out0,$inperm
le?vperm $out1,$out1,$out1,$inperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inperm
stvx_u $out3,$x30,$out
le?vperm $out5,$out5,$out5,$inperm
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,$out0,$inperm
le?vperm $out1,$out1,$out1,$inperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inperm
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,$out0,$inperm
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
bLctr32_enc8x_done

.align5
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
bLcbc_dec8x_done

.align5
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
bLcbc_dec8x_done

.align5
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
addi10,r10,32
stvx$inpperm,r11,$sp
addi11,r11,32
stvx$inpperm,r10,$sp
addi10,r10,32
stvx$inpperm,r11,$sp
addi11,r11,32
stvx$inpperm,r10,$sp
addi10,r10,32
stvx$inpperm,r11,$sp
addi11,r11,32
stvx$inpperm,r10,$sp
addi10,r10,32
stvx$inpperm,r11,$sp
addi11,r11,32
mtspr256,$vrsave
lvx20,r10,$sp # ABI says so
addi10,r10,32
lvx21,r11,$sp
addi11,r11,32
lvx22,r10,$sp
addi10,r10,32
lvx23,r11,$sp
addi11,r11,32
lvx24,r10,$sp
addi10,r10,32
lvx25,r11,$sp
addi11,r11,32
lvx26,r10,$sp
addi10,r10,32
lvx27,r11,$sp
addi11,r11,32
lvx28,r10,$sp
addi10,r10,32
lvx29,r11,$sp
addi11,r11,32
lvx30,r10,$sp
lvx31,r11,$sp
SPOP26,'$FRAME+21*16+0*$SIZE_T'($sp)
SPOP27,'$FRAME+21*16+1*$SIZE_T'($sp)
SPOP28,'$FRAME+21*16+2*$SIZE_T'($sp)
SPOP29,'$FRAME+21*16+3*$SIZE_T'($sp)
SPOP30,'$FRAME+21*16+4*$SIZE_T'($sp)
SPOP31,'$FRAME+21*16+5*$SIZE_T'($sp)
addi$sp,$sp,'$FRAME+21*16+6*$SIZE_T'
blr
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.long0  
.byte0,12,0x04,0,0x80,6,6,0  
.long0  
.size.${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
.align5

${prefix}_xts_encrypt:

mr$inp,r3# reassign
li$3,-1
{UCMP}i$len,16
bltr-

lisr0,0xffff
mfspr12,256# save vrsave
li$11,0
mtspr256,r0

vspltisb$sseven,0x07# 0x070707..07
le?lvst$leperm,r11,r11
le?vspltisb$tmplr,0x0f
le?vxor$leperm,$leperm,$seven

li$idx,15
lvx$tweak,0,$ivp# load [unaligned] iv
lvst$inperm,0,$ivp
lvx$inptail,$idx,$ivp
le?vxor$inperm,$inperm,$tmplr
vperm$tweak,$inperm,$inperm

?lvst$leperm,0,$key2# prepare for unaligned key
lwz$rounds,240($key2)
srwi$rounds,$rounds,1
subi$rounds,$rounds,1
li$idx,16

}}}
neg $r11, $in
lvsr $inpperm, 0, r11 # prepare for unaligned load
lvx $inout, 0, $in
addi $in, $in, 15 # 15 is not typo
tlwv xor $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
mtc $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
vcipher last $tweak, $tweak, $rndkey0

lvx $inptail, 0, $in
addi $in, $in, 16

?vsl $keyperm, 0, $key1 # prepare for unaligned key
lwz $rounds, 240($key1)
srwi $rounds, $rounds, 1
subi $rounds, $rounds, 1
li $idx, 16

vshl $eighty7, $seven, $seven # 0x808080..80
vor $eight7, $eighty7, $seven # 0x878787..87
vspli sb $tmp, 1 # 0x010101..01
vsl doi $eighty7, $eight7, $tmp, 15 # 0x870101..01
${UCMP}i\$len,96
bge_aes8_xts_encrypt6x

andi.$taillen,$len,15
subi$r0,$len,32
subi$taillen,$taillen,16
sub$r0,r0,r0
and$r0,r0,$taillen
add$ inp,$ inp,r0

l vx$rndkey0,0,$key1
l vx$rndkey1,$idx,$key1
addi$idx,$idx,16
vperm$inout,$inout,$inptail,$inpperm
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$inout,$stweak
vxor$inout,$inout,$rndkey0
l vx$rndkey0,$idx,$key1
addi$idx,$idx,16
mtctr$rounds
b $Loop_xts_enc

.align5
$Loop_xts_enc:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$inout,$inout,$rndkey1
l vx$rndkey1,$idx,$key1
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher$inout,$inout,$rndkey0
l vx$rndkey0,$idx,$key1
addi$idx,$idx,16
bdnz$Loop_xts_enc

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$inout,$inout,$rndkey1
l vx$rndkey1,$idx,$key1
li$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$rndkey0,$rndkey0,$stweak
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
beqL.xts_enc_done

vmr$inout,$inptail
lvx$inptail,0,$inp
addi$inp,$inp,16
lvx$rndkey0,0,$key1
lvx$rndkey1,0,$key1
addi$idx,$idx,16

subicr0,$len,32
subfer0,r0,r0
andr0,r0,staillen
addi$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,$stweak
vxor$output,$output,$rndkey0 # just in case $len<16
lvx$rndkey0,0,$idx,$key1
addi$idx,$idx,16

mtctr$rounds
${UCMP}i$len,16
bgeLoop_xts_enc

vxor$output,$output,$tweak
lvrs$inpperm,0,$len # $inpperm is no longer needed
vxor$inptail,$inptail,$inptail # $inptail is no longer needed
vsplitb$tmp,-1
vperm$inptail,$inptail,$tmp,$inpperm
vsel$inout,$inout,$tmp,$inptail

subi11,$out,17
subi$out,$out,16
mtctr$len
li$len,16
Loop_xts_enc_steal:
lbzu1,1(r11)
stbr0,16(r11)
bdnzLoop_xts_enc_steal
mtctr$rounds
bLoop_xts_enc# one more time...

Lxts_enc_done:
mtspr256,r12# restore vrsave
li$r3,0
blr
.long0
.byte0,12,0x04,0,0x80,6,6,0
.long0
.size${prefix}_xts_encrypt,-.${prefix}_xts_encrypt

.globl${prefix}_xts_decrypt
.align5
.${prefix}_xts_decrypt:

mr$inp,r3# reassign
li$r3,-1
${UCMP}i$len,16
bltr-
lisr0,0xffff8
mfspr12,256# save vrsave
li$r11,0
mtspr256,r0

andi.r0,$len,15
neg$r0,r0
andi.r0,r0,16
sub$slen,$len,r0

vspltisb$seven,0x07# 0x070707..07
le?vls$leperm,r11,r11
le?vspplitisb$tmp,0x0f
le?vxor$leperm,$leperm,$seven

li$idx,15
lvx$tweak,0,$ivp# load [unaligned] iv
lvsl$inperm,0,$ivp
lvx$inptail,$idx,$ivp
le?vxor$inperm,$inperm,$tmp
vperm$tweak,$tweak,$inptail,$inperm

?lvsl$keyperm,0,$key2# prepare for unaligned key
lwz$rounds,240($key2)
srwi$rounds,$rounds,1
sub$i$rounds,$rounds,1
li$idx,16
negi1,$in
lisr$inpperml,0,r11# prepare for unaligned load
lvx$inout,0,$in
addi$inpx,$inpperm,15# 15 is not typo
le?vxor$inpperml,$inpperml,$tmp

lvx$rndkeyl0,0,$key2
lvx$rndkeyl1,$idx,$key2
addi$idx,$idx,16
?vperm$ rndkeyl0,$rndkeyl0,$rndkeyl1,$keyperm
vxor$ tweak,$ tweak,$ rndkeyl0
lvx$ rndkeyl0,$idx,$key2
addi$idx,$idx,16
mtctr$rounds

Ltweak_xts_dec:
?vperm$ rndkeyl1,$ rndkeyl1,$ rndkeyl0,$ keyperm
vcipher$ tweak,$ tweak,$ rndkeyl1
lvx$ rndkeyl1,$ idx,$ key2
addi$idx,$idx,16
?vperm$ rndkeyl0,$ rndkeyl0,$ rndkeyl1,$ keyperm
vcipher$ tweak,$ tweak,$ rndkeyl0
lvx$ rndkeyl0,$idx,$key2
addi$idx,$idx,16
bdnzLtweak_xts_dec

?vperm$ rndkeyl1,$ rndkeyl1,$ rndkeyl0,$ keyperm
vcipher$ tweak,$ tweak,$ rndkeyl1
lvx$ rndkeyl1,$ idx,$ key2
li$idx,16
?vperm$ rndkeyl0,$ rndkeyl0,$ rndkeyl1,$ keyperm
vcipherlast$ tweak,$ tweak,$ rndkeyl0

lvx$inptail,0,$in
addi$inpx,$in,16

?lvsl$keyperm,0,$key1# prepare for unaligned key
lwz$rounds,240($key1)
srwi$rounds,$rounds,1
subi$rounds,$rounds,1
li$idx,16

vsb$s eigh ty7,$seven,$seven# 0x808080..80
vor$s eigh ty7,$seighty7,$seven# 0x878787..87
vsplitb$tmp,1# 0x010101..01
vsldoi$seighty7,$seighty7,$tmp,15# 0x870101..01

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${UCMP}i\len,96$
\texttt{bge\_aes\_xts\_decrypt6x}$

\texttt{lvx\_rndkey0,0,\_key1}
\texttt{lvx\_rndkey1,\_idx,\_key1}
\texttt{addi\_idx,\_idx,16}
\texttt{vperm\_inout,\_inout,\_inptail,\_inperm}
\texttt{?vperm\_rndkey0,\_rndkey0,\_rndkey1,\_keyperm}
\texttt{vxor\_inout,\_inout,\_tweak}
\texttt{vxor\_inout,\_inout,\_rndkey0}
\texttt{lvx\_rndkey0,\_idx,\_key1}
\texttt{addi\_idx,\_idx,16}
\texttt{mtctr\_rounds}

${UCMP}i\len,16$
\texttt{blt\_tail\_xts\_dec}
\texttt{be?b\texttt{Loop\_xts\_dec}}

\texttt{.align5}
\texttt{Loop\_xts\_dec:}
\texttt{?vperm\_rndkey1,\_rndkey1,\_rndkey0,\_keyperm}
\texttt{vncipher\_inout,\_inout,\_rndkey1}
\texttt{lvx\_rndkey1,\_idx,\_key1}
\texttt{addi\_idx,\_idx,16}
\texttt{?vperm\_rndkey0,\_rndkey0,\_rndkey1,\_keyperm}
\texttt{vncipher\_inout,\_inout,\_rndkey0}
\texttt{lvx\_rndkey0,\_idx,\_key1}
\texttt{addi\_idx,\_idx,16}
\texttt{bdnz\texttt{Loop\_xts\_dec}}

\texttt{?vperm\_rndkey1,\_rndkey1,\_rndkey0,\_keyperm}
\texttt{vncipher\_inout,\_inout,\_rndkey1}
\texttt{lvx\_rndkey1,\_idx,\_key1}
\texttt{li\_idx,16}
\texttt{?vperm\_rndkey0,\_rndkey0,\_rndkey1,\_keyperm}
\texttt{vxor\_rndkey0,\_rndkey0,\_tweak}
\texttt{vncipher\_last\_output,\_inout,\_rndkey0}

\texttt{le?vperm\_tmp,\_output,\_output,\_leperm}
\texttt{be?nop}
\texttt{le\_stvx\_u\_tmp,0,\_out}
\texttt{be\_stvx\_u\_output,0,\_out}
\texttt{addi\_out,\_out,16}

\texttt{subic.\_len,\_len,16}
\texttt{beq\_xts\_dec\_done}

\texttt{vmr\_inout,\_inptail}
lvx$inptail,0,$inp
addi$inp,$inp,16
lvx$sndkey0,0,$key1
lvx$sndkey1,$idx,$key1
addi$idx,$idx,16

tail_xts_dec:

vslori$tmp,$tmp,$tmp,15
vaddu$m$tweak,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
vand$m$tmp,$tmp,$eighty7
vxor$m$tweak,$tweak,$tmp

vxor$m$tweak,$tweak,$tmp

mtctr$m$rounds

Loop_xts_dec:

Ltail_xts_dec:

vsrab$ttmp,$tweak,$seven# next tweak value
vaddu$m$tweak1,$tweak,$tweak
vsldoi$ttmp,$tmp,$tmp,15
vand$m$ttmp,$tmp,$eighty7
vxor$m$tweak1,$tweak1,$tmp

subi$inp,$inp,16
addi$inp,$inp,$len

vxor$m$tinout,$inout,$tweak# :-(
vxor$m$tinout,$inout,$tweak1# :-(

Loop_xts_dec_short:

?vperm$sndkey1,$sndkey1,$sndkey0,$keyperm
vncipher$m$inout,$inout,$sndkey1
lvx$sndkey1,$idx,$key1
addi$idx,$idx,16

?vperm$sndkey0,$sndkey0,$sndkey1,$keyperm
vncipher$m$inout,$inout,$sndkey0
lvx$sndkey0,$idx,$key1
addi$idx,$idx,16
bdnzLoop_xts_dec_short

?vperm$sndkey1,$sndkey1,$sndkey0,$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$out$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

lvx$rndkey1,0,$key
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16
vperm$rndkey0,$rndkey0,$tweak
vxor$rndkey0,$rndkey0,$tweak
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16
subi11,$out,1
mtctr$len
li$len,16
Loop_xts_dec_steal:
lbzu$r0,1(r11)
stbr0,16(r11)
bdnzLoop_xts_dec_steal

mtctr$rounds
bLoop_xts_dec# one more time...

Lxts_dec_done:
mtspr256,r12# restore vrsave
lir3,0
blr
.long0
.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;

$code.=<<___;
.align 5
_aesp8_xts_encrypt6x:
SSTU$sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
mflr0
li7,’$FRAME+8*16+15’
li8,’$FRAME+8*16+31’
SPUSHr0,’$FRAME+21*16+6*$SIZE_T+$LRSAVE’($sp)
stvxv20,r7,$sp# ABI says so
addir7,r7,32
stvxv21,r8,$sp
addir8,r8,32
stvxv22,r7,$sp
addir7,r7,32
stvxv23,r8,$sp
addir8,r8,32
stvxv24,r7,$sp
addir7,r7,32
stvxv25,r8,$sp
addir8,r8,32
stvxv26,r7,$sp
addir7,r7,32
stvxv27,r8,$sp
addir8,r8,32
stvxv28,r7,$sp
addir7,r7,32
stvxv29,r8,$sp
addir8,r8,32
stvxv30,r7,$sp
stvxv31,r8,$sp
mr7,r0

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li r0,-1
stw$vrsave,$FRAME+21*16-4($sp)# save vrsave
li$x10,0x10
$PUSHr26,$FRAME+21*16+0*SIZE_T($sp)
li$x20,0x20
$PUSHr27,$FRAME+21*16+1*SIZE_T($sp)
li$x30,0x30
$PUSHr28,$FRAME+21*16+2*SIZE_T($sp)
li$x40,0x40
$PUSHr29,$FRAME+21*16+3*SIZE_T($sp)
li$x50,0x50
$PUSHr30,$FRAME+21*16+4*SIZE_T($sp)
li$x60,0x60
$PUSHr31,$FRAME+21*16+5*SIZE_T($sp)
li$x70,0x70
mtspr256,r0

subi $rounds,$rounds,3# -4 in total

lvx$rndkey0,$x00,$key1# load key schedule
lvxv30,$x10,$key1
addi$key1,$key1,0x20
lvxv31,$x00,$key1
?vperm$rndkey0,$rndkey0,v30,$keyperm
addi$key_,$sp,$FRAME+15
mtctr$rounds

Load_xts_enc_key:
?vpermv24,v30,v31,$keyperm
lvxv30,$x10,$key1
addi$key1,$key1,0x20
stvxv24,$x00,$key_# off-load round[1]
?vpermv25,v31,v30,$keyperm
lvxv31,$x00,$key1
stvxv25,$x10,$key_# off-load round[2]
addi$key_,$key_,0x20
bdnzLoad_xts_enc_key

lvxv26,$x10,$key1
?vpermv24,v30,v31,$keyperm
lvxv27,$x20,$key1
stvxv24,$x00,$key_# off-load round[3]
?vpermv25,v31,v26,$keyperm
lvxv28,$x30,$key1
stvxv25,$x10,$key_# off-load round[4]
addi$key_,$sp,$FRAME+15# rewind $key_
?vpermv26,v26,v27,$keyperm
lvxv29,$x40,$key1
?vpermv27,v27,v28,$keyperm
lvx30,$x50,$key1
?vpermv28,v28,v29,$keyperm
lvx31,$x60,$key1
?vpermv29,v29,v30,$keyperm
lvx$twk5,$x70,$key1 # borrow $twk5
?vpermv30,v30,v31,$keyperm
lvx24,$x00,$key_ # pre-load round[1]
?vpermv31,v31,$twk5,$keyperm
lvx25,$x10,$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,$inp
subil$len,$len,0x60
vxor$twk4,$tweak,$rndkey0
vrsab$tmp,$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
vrsab$tmp,$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
bLoop_xts_enc6x

.align5
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
lvxv24,$x20,$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
lvxv25,$x10,$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,$rndkey0
vaddumm$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,r0,0# borrow?-1:0
vand$tmp,$tmp,$eighty7
vcipher$out0,$out0,v25
vcipher$out1,$out1,v25
vxor$twk0,$tweak,$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

andr0,r0,$len
vaddumm$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$twk0,$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$tmp,Stweak,$seven # next tweak value
 vxor$twk5,Stweak,$rndkey0

 vcipherlast$out0,$out0,$in0
 lvx_u$in0,$x00,$inp # load next input block
 vaddubm$twk5,Stweak,$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,$inp
 vadd$tmp,Stmp,$eighty7
 vcipherlast$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,$inp
 vxor$twk5,Stweak,Stweak,$tmp
 vcipherlast$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?

addi $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 _aes8_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
bneLxts_enc6x_steal
bLxts_enc6x_done

.align4
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
bneLxts_enc6x_steal
bLxts_enc6x_done

.align4
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

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le?vperm$out0,$out0,$out0,$leperm
vmr$twk0,$twk2# unused tweak
vxor$tm,$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,0,$x20
bneLxts_enc6x_steal
blxts_enc6x_done
.align4
Lxts_enc6x_one:
vxor$out0,$in5,$twk0
nop
Loop_xts_enc1x:
vcipher$out0,$out0,v24
lvx24,$x20,$key_# round[3]
addi$key_,-$key_,0,$x20
vcipher$out0,$out0,v25
lvx25,$x10,$key_# round[4]
bdnzLoop_xts_enc1x
addi inp,$inp,$taillen
cmpwi$taillen,0
vcipher$out0,$out0,v24
subi inp,$inp,16
vcipher$out0,$out0,v25
lvr$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,$out0,v28
lvx24,$x00,$key_# re-pre-load round[1]
vcipher$out0,$out0,v29
lvx25,$x10,$key_# re-pre-load round[2]
vxor$twk0,$twk0,v31
le?vperm$in0,$in0,$in0,$leperm
vcipher$out0,$out0,v30
vperm$sin0,$in0,$in0,$inpperm
vcipherlast$sout0,$out0,$twk0

vmr$twk0,$twk1# unused tweak
vxor$tmptmp0,$out0,$twk1# last block prep for stealing
le?vperm$sout0,$out0,$out0,$leperm
stvx_usout0,$x00,$out# store output
addi$sout0,$out0,0x10
bneLxts_enc6x_steal
bLxts_enc6x_done

.align4
Lxts_enc6x_zero:
cmpwi$taillen0
beqLxts_enc6x_done

add$sinp,$inp,$taillen
subi$sinp,$inp,16
lvx_u$sin0,0,$inp
lv$r$inpperm0,$taillen# $in5 is no more
le?vperm$sin0,$in0,$in0,$leperm
vxor$tmptmp0,$in0,$inpperm
vxor$tmptmp0,$out0,$twk0
Lxts_enc6x_steal:
vxor$sin0,$in0,$twk0
vxor$sout0,$out0,$sout0
vspltisb$sout1,-1
vxor$sout0,$out0,$sout1,$inpperm
vsel$sout0,$sin0,$tmp,$sout0# $tmp is last block, remember?

subi$r3,$out,17
subi$sout,$out,16
mtctr$taillen
Loop_xts_enc6x_steal:
lbzur0,1(r3)
stbr0,16(r3)
bdnzLoop_xts_enc6x_steal

li$taillen0
mtctr$rounds
bLoop_xts_enc1x# one more time...

.align4
Lxts_enc6x_done:
mlr7
li10,`$FRAME+15`
li11,`$FRAME+31`
stvx$seven,r10,$sp# wipe copies of round keys
addi10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
stvx$seven,r10,$sp
addi10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
stvx$seven,r10,$sp
addi10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
stvx$seven,r10,$sp
addi10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
stvx$seven,r10,$sp
addi10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
stvx$seven,r10,$sp
addi10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
mtspr256,$vrsave
lvx20,r10,$sp # ABI says so
addi10,r10,32
lvx21,r11,$sp
addi11,r11,32
lvx22,r10,$sp
addi10,r10,32
lvx23,r11,$sp
addi11,r11,32
lvx24,r10,$sp
addi10,r10,32
lvx25,r11,$sp
addi11,r11,32
lvx26,r10,$sp
addi10,r10,32
lvx27,r11,$sp
addi11,r11,32
lvx28,r10,$sp
addi10,r10,32
lvx29,r11,$sp
addi11,r11,32
lvx30,r10,$sp
addi31,r11,$sp
SPOP26, $FRAME+21*16+0*SIZE_T ($sp)
SPOP27, $FRAME+21*16+1*SIZE_T ($sp)
SPOP28, $FRAME+21*16+2*SIZE_T ($sp)
SPOP29, $FRAME+21*16+3*SIZE_T ($sp)
SPOP30, $FRAME+21*16+4*SIZE_T ($sp)
SPOP31, $FRAME+21*16+5*SIZE_T ($sp)
addi$sp,$sp,$FRAME+21*16+6*SIZE_T
blr .long0
.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
lvx24, $x20, $key_ # round[3]
add $key_ - $key_ 0x20

vcipher $out0, $out0, v25
vcipher $out1, $out1, v25
vcipher $out2, $out2, v25
vcipher $out3, $out3, v25
vcipher $out4, $out4, v25
lvx25, $x10, $key_ # round[4]
bdsn_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, $out1, v27
vcipher$\text{out2},$\text{out2},v27
vcipher$\text{out3},$\text{out3},v27
vcipher$\text{out4},$\text{out4},v27
vxor$\text{in2},$\text{twk2},v31

\text{addi}$\text{key}_,$\text{sp},$\text{FRAME+15}$# rewind $\text{key}_$
vcipher$\text{out0},$\text{out0},v28
vcipher$\text{out1},$\text{out1},v28
vcipher$\text{out2},$\text{out2},v28
vcipher$\text{out3},$\text{out3},v28
vcipher$\text{out4},$\text{out4},v28
lvxv24,$x00,$\text{key}_$ # re-pre-load round[1]
vxor$\text{in3},$\text{twk3},v31

vcipher$\text{out0},$\text{out0},v29
le?vperm$\text{in0},$\text{in0},$\text{in0},$\text{leperm}$
vcipher$\text{out1},$\text{out1},v29
vcipher$\text{out2},$\text{out2},v29
vcipher$\text{out3},$\text{out3},v29
vcipher$\text{out4},$\text{out4},v29
lvxv25,$x10,$\text{key}_$ # re-pre-load round[2]
vxor$\text{in4},$\text{twk4},v31

vcipher$\text{out0},$\text{out0},v30
vperm$\text{in0},$\text{in0},$\text{in0},$\text{inpperm}$
vcipher$\text{out1},$\text{out1},v30
vcipher$\text{out2},$\text{out2},v30
vcipher$\text{out3},$\text{out3},v30
vcipher$\text{out4},$\text{out4},v30

vcipherlast$\text{out0},$\text{out0},$\text{twk0}$
vcipherlast$\text{out1},$\text{out1},$\text{in1}$
vcipherlast$\text{out2},$\text{out2},$\text{in2}$
vcipherlast$\text{out3},$\text{out3},$\text{in3}$
vcipherlast$\text{out4},$\text{out4},$\text{in4}$
blr
   .long  0
   .byte 0,12,0x14,0,0,0,0,0

.align5
._aes8_xts_decrypt6x:
$\text{STU}$\text{sp},-`($\text{FRAME}+21*16+6*\text{SSIZE_T}$) ($\text{sp}$)
mflr0
lir7,'$\text{FRAME}+8*16+15$
li8,'$\text{FRAME}+8*16+31$
$\text{SPUSHr0},'$\text{FRAME}+21*16+6*\text{SSIZE_T}+\text{SLRSAVE'} ($\text{sp}$)
stvxv20,r7,$\text{sp}$# ABI says so
addr7,r7,32
stvx
stvx
stvx
stvx
stvx
stvx
stvx
stvx
stvx
mr
li
stw
PUSH
PUSH
PUSH
PUSH
PUSH
PUSH
li
mtspr
subi
lvx
lvx
addi?
vperm
addi
mtctr
subi
lvx
li
lvx
addi
?vperm
addi
mtctr

stvxv21,r8,$sp
addi8,r8,32
stvxv22,r7,$sp
addi7,r7,32
stvxv23,r8,$sp
addi8,r8,32
stvxv24,r7,$sp
addi7,r7,32
stvxv25,r8,$sp
addi8,r8,32
stvxv26,r7,$sp
addi7,r7,32
stvxv27,r8,$sp
addi8,r8,32
stvxv28,r7,$sp
addi7,r7,32
stvxv29,r8,$sp
addi8,r8,32
stvxv30,r7,$sp
stvxv31,r8,$sp
mrr7,r0
lir0,-1
stw$vrsave,$FRAME+21*16-4($sp)# save vrsave
li$sx10,0x10
$PUSHr26,$FRAME+21*16+0*SIZE_T($sp)
li$sx20,0x20
$PUSHr27,$FRAME+21*16+1*SIZE_T($sp)
li$sx30,0x30
$PUSHr28,$FRAME+21*16+2*SIZE_T($sp)
li$sx40,0x40
$PUSHr29,$FRAME+21*16+3*SIZE_T($sp)
li$sx50,0x50
$PUSHr30,$FRAME+21*16+4*SIZE_T($sp)
li$sx60,0x60
$PUSHr31,$FRAME+21*16+5*SIZE_T($sp)
li$sx70,0x70
mtspr256,r0

subi$rounds,$rounds,3# -4 in total

lvx$rndkey0,$x00,$key1# load key schedule
lvxv30,$x10,$key1
addi$key1,$key1,0x20
lvxv31,$x00,$key1
?vperm$rndkey0,$rndkey0,v30,$keyperm
addi$key_,sp,$FRAME+15
mtctr$rounds

Open Source Used In FXOS MIO 2.9.1.157 1735
Load_xts_dec_key:
?vpermv24,v30,v31,$keyperm
lvxv30,$x10,$key1
addi$key1,$key1,0x20
stvxv24,5$x00,$key_ # off-load round[1]
?vpermv25,v31,v30,$keyperm
lvxv31,$x00,$key1
stvxv25,5$x10,$key_ # off-load round[2]
addi$key_,$key_0x20
bdnZLoad_xts_dec_key

lvxv26,5$x10,$key1
?vpermv24,v30,v31,$keyperm
lvxv27,5$x20,$key1
stvxv24,5$x00,$key_ # off-load round[3]
?vpermv25,v31,v26,$keyperm
lvxv28,5$x30,$key1
stvxv25,5$x10,$key_ # off-load round[4]
addi$key_,$sp,$FRAME+15 # rewind $key_
?vpermv26,v26,v27,$keyperm
lvxv29,5$x40,$key1
?vpermv27,v27,v28,$keyperm
lvxv30,5$x50,$key1
?vpermv28,v28,v29,$keyperm
lvxv31,5$x60,$key1
?vpermv29,v29,v30,$keyperm
lvx$twk5,5$x70,$key1 # borrow $twk5
?vpermv30,v30,v31,$keyperm
lvxv24,5$x00,$key_ # pre-load round[1]
?vpermv31,v31,$twk5,$keyperm
lvxv25,5$x10,$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$twk,$twk,$twk
vsldoi$tmp,$tmp,$tmp,15
vand$tmp,$tmp,$eighty7
vxor$out0,$in0,$twk0
vxor$twk,$twk,$tmp

lvx_u$in1,5$x10,$inp
vxor$twk1,$twk,$rndkey0
vsrab$tmp,$tweak,$seven# next tweak value
vaddubm$twk,$twk,$twk
vsldoi$tmp,$tmp,$tmp,15
le?vperm$in1,$in1,$in1,$leperm
vand$tm,$tmp,$eighty7
vxor$sin1,$sin1,$twk1
vxor$tweak,$tweak,$tmp

lvx_u$sin2,$x20,$inp
andi.$tailen,$len,15
vxor$twk2,$tweak,$rndkey0
vsrab$tweak,$seven# next tweak value
vaddubm$tweak,$tweak,$tweak
vsldoi$tweak,$tmp,$tmp,15
le?$perm$sin2,$sin2,$sin2,$leperm
vand$tweak,$tmp,$eighty7
vxor$sout2,$sin2,$twk2
vxor$tweak,$tweak,$tmp

lvx_u$sin3,$x30,$inp
sub$len,$len,$tailen
vxor$twk3,$tweak,$rndkey0
vsrab$tweak,$seven# next tweak value
vaddubm$tweak,$tweak,$tweak
vsldoi$tweak,$tmp,$tmp,15
le?$perm$sin3,$sin3,$sin3,$leperm
vand$tweak,$tmp,$eighty7
vxor$sout3,$sin3,$twk3
vxor$tweak,$tweak,$tmp

lvx_u$sin4,$x40,$inp
subi$len,$len,0x60
vxor$twk4,$tweak,$rndkey0
vsrab$tweak,$seven# next tweak value
vaddubm$tweak,$tweak,$tweak
vsldoi$tweak,$tmp,$tmp,15
le?$perm$sin4,$sin4,$sin4,$leperm
vand$tweak,$tmp,$eighty7
vxor$sout4,$sin4,$twk4
vxor$tweak,$tweak,$tmp

lvx_u$sin5,$x50,$inp
addi$inp,$inp,0x60
vxor$twk5,$tweak,$rndkey0
vsrab$tweak,$seven# next tweak value
vaddubm$tweak,$tweak,$tweak
vsldoi$tweak,$tmp,$tmp,15
le?$perm$sin5,$sin5,$sin5,$leperm
vand$tweak,$tmp,$eighty7
vxor$sout5,$sin5,$twk5
vxor$tweak,$tweak,$tmp

---

Open Source Used In FXOS MIO 2.9.1.157 1737
vxor31,v31,$rndkey0
mtctr$rounds
bLoop_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
lvx24,$x20,$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
lvx25,$x10,$key_ # round[4]
bdnzLoop_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$0,r0,$len
vaddubm$stwke,$stwke,$stwke
vsldoi$tmp,$tmp,$tmp,15
vncipher$out0,$out0,v26
vncipher$out1,$out1,v26
vand$tmp,$tmp,Seighty7
vncipher$out2,$out2,v26
vncipher$out3,$out3,v26
vxor$stwke,$stwke,$tmp
vncipher$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$twk2,$stwke,$rndkey0
vaddubm$stwke,$stwke,$stwke
vncipher$out0,$out0,v27
vncipher$out1,$out1,v27
vsldoi$tmp,$tmp,$tmp,15
vncipher$out2,$out2,v27
vncipher$out3,$out3,v27
vand$tmp,$tmp,Seighty7
vncipher$out4,$out4,v27
vncipher$out5,$out5,v27

addi$key_,$sp,$FRAME+15# rewind $key_
vxor$stwke,$stwke,$tmp
vncipher$out0,$out0,v28
vncipher$out1,$out1,v28
vxor$in3,$twk3,v31
vsrab$tmp,$tweak,$seven# next tweak value
vxor$twk3,$stwke,$rndkey0
vncipher$out2,$out2,v28
vncipher$out3,$out3,v28
vaddubm$stwke,$stwke,$stwke
vsldoi$tmp,$tmp,$tmp,15
vncipher$out4,$out4,v28
vncipher$out5,$out5,v28
lvx$v24,$x00,$key_# re-pre-load round[1]
vand$tmp,$tmp,Seighty7

vncipher$out0,$out0,v29
vncipher$out1,$out1,v29
vxor$twk4,$twk4,$tmp
vncipher$out2,$out2,v29
vncipher$out3,$out3,v29
vxor$in4,$twk4,v31
vsrab$tmp,$twk4,$seven	# next tweak value
vxor$twk4,$twk4,$twk4
vncipher$in4,$in4,v29
vncipher$in5,$in5,v29
lvx25,$x10,$key_	# re-pre-load round[2]
vaddubm$tweak,$twk4,$twk4
vsldoi$tmp,$tmp,$tmp,15
vncipher$in0,$in0,v30
vncipher$in1,$in1,v30
vncipher$in2,$in2,v30
vxor$twk5,$twk5,$twk5
vncipher$in3,$in3,v30
vncipher$in4,$in4,v30
vxor$in5,$twk5,v31
vsrab$tmp,$twk5,$seven	# next tweak value
vxor$twk5,$twk5,$twk5
vncipherlast$in0,$in0
lvx_u$in0,$x00,$inp	# load next input block
vaddubm$tweak,$twk5,$twk5
vsldoi$tmp,$tmp,$tmp,15
vncipherlast$in1,$in1,$sin1
lvx_u$in1,$x10,$inp
vncipherlast$in2,$in2,$sin2
gle?perm$in0,$in0,$sin0,$leperm
lvx_u$in2,$x20,$inp
vand$tmp,$tmp,$eighty7
vncipherlast$in3,$in3,$sin3
gle?perm$in1,$in1,$sin1,$leperm
lvx_u$in3,$x30,$inp
vncipherlast$in4,$in4,$sin4
gle?perm$in2,$in2,$sin2,$leperm
lvx_u$in4,$x40,$inp
vxor$tweak,$tweak,$tmp
vncipherlast$in5,$in5,$sin5
gle?perm$in3,$in3,$sin3,$leperm
lvx_u$in5,$x50,$inp
addi$inp,$inp,0x60
gle?perm$in4,$in4,$sin4,$leperm
gle?perm$in5,$in5,$sin5,$leperm
le?vperm$sout0,$out0,$out0,$leperm
le?vperm$sout1,$out1,$out1,$leperm
stvx_u$sout0,$x00,$out# store output
vxor$sout0,$in0,$twk0
le?vperm$sout2,$out2,$out2,$leperm
stvx_u$sout1,$x10,$out
vxor$sout1,$in1,$twk1
le?vperm$sout3,$out3,$out3,$leperm
stvx_u$sout2,$x20,$out
vxor$sout2,$in2,$twk2
le?vperm$sout4,$out4,$out4,$leperm
stvx_u$sout3,$x30,$out
vxor$sout3,$in3,$twk3
le?vperm$sout5,$out5,$out5,$leperm
stvx_u$sout4,$x40,$out
vxor$sout4,$in4,$twk4
stvx_u$sout5,$x50,$out
vxor$sout5,$in5,$twk5
addi$sout,$out,0x60
mtctr$rounds
beq Loop_xts_dec6x# did $len-=96 borrow?
addi.$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$sout0,$in1,$twk0
vxor$sout1,$in2,$twk1
vxor$sout2,$in3,$twk2
vxor$sout3,$in4,$twk3
vxor$sout4,$in5,$twk4
bl_aesp8_xts_dec5x

le?vperm$sout0,$out0,$out0,$leperm
vmr$twk0,$twk5# unused tweak
vxor$twk1,$tweak,$rndkey0
le?vperm$sout1,$out1,$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
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
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
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
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
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
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
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
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]
bdnzLoop_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
lvx24,\$x00,\$key_ # re-pre-load round[1]
vncipher\$out0,\$out0,v29
lvx25,\$x10,\$key_ # re-pre-load round[2]
vxor\$twk0,\$twk0,v31

le?vperm\$in0,\$in0,\$in0,\$leperm
vncipher\$out0,\$out0,v30

mtctr\$rounds
vncipher\$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
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
Lxts_dec6x_zero:
cmpwi\$taillen,0
beqLxts_dec6x_done

lvx_u\$in0,0,\$inp
le?vperm\$in0,\$in0,\$in0,\$leperm
vxor\$out0,\$in0,\$twk1
Lxts_dec6x_steal:
vncipher\$out0,\$out0,v24
lvx24,\$x20,\$key_ # round[3]
addi\$key_-,\$key_,0x20
vncipher $out0, $out0, v25
lvx25, $x10, $key_ # round[4]
bdnz Lxs_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
lvx24, $x00, $key_ # re-pre-load round[1]
vncipher $out0, $out0, v29
lvx25, $x10, $key_ # re-pre-load round[2]
vxor $twk1, $twk1, v31

le? vperm $in0, $in0, $in0, $leperm
vncipher $out0, $out0, v30

evperm $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
vsplitisb $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)
stbr 0, 16(r3)
bdnz Loop_xts_dec6x_steal

li $taillen, 0
mtctr$rounds
bLoop_xts_dec1x# one more time...

.align4
Lxts_dec6x_done:
mtlrr7
lir10,"$FRAME+15"
lir11,"$FRAME+31"
stvx$seven,r10,$sp# wipe copies of round keys
addir10,r10,32
stvx$seven,r11,$sp
addir11,r11,32
stvx$seven,r10,$sp
addir10,r10,32
stvx$seven,r11,$sp
addir11,r11,32
stvx$seven,r10,$sp
addir10,r10,32
stvx$seven,r11,$sp
addir11,r11,32
stvx$seven,r10,$sp
addir10,r10,32
stvx$seven,r11,$sp
addir11,r11,32
stvx$seven,r10,$sp
addir10,r10,32
stvx$seven,r11,$sp
addir11,r11,32

mtspr256,$vrsave
lvx20,r10,$sp# ABI says so
addir10,r10,32
lvx21,r11,$sp
addir11,r11,32
lvx22,r10,$sp
addir10,r10,32
lvx23,r11,$sp
addir11,r11,32
lvx24,r10,$sp
addir10,r10,32
lvx25,r11,$sp
addir11,r11,32
lvx26,r10,$sp
addir10,r10,32
lvx27,r11,$sp
addir11,r11,32
lvx28,r10,$sp
addir10,r10,32
lvx29,r11,$sp
addir11,r11,32
lvx30,r10,$sp
lvx31,r11,$sp
$POP\text{r}_{26}, \text{SFRAME+21*16+0*SIZE_T}(\sp)\\$POP\text{r}_{27}, \text{SFRAME+21*16+1*SIZE_T}(\sp)\\$POP\text{r}_{28}, \text{SFRAME+21*16+2*SIZE_T}(\sp)\\$POP\text{r}_{29}, \text{SFRAME+21*16+3*SIZE_T}(\sp)\\$POP\text{r}_{30}, \text{SFRAME+21*16+4*SIZE_T}(\sp)\\$POP\text{r}_{31}, \text{SFRAME+21*16+5*SIZE_T}(\sp)\addi\sp,\sp, \text{SFRAME+21*16+6*SIZE_T}\\\text{blr}\\.long 0\\.byte 0, 12, 0x04, 1, 0x80, 6, 6, 0\\.long 0

.align 5
_aesp8_xts_dec5x:
vncipher\text{out}_0, \text{out}_0, v24
vncipher\text{out}_1, \text{out}_1, v24
vncipher\text{out}_2, \text{out}_2, v24
vncipher\text{out}_3, \text{out}_3, v24
vncipher\text{out}_4, \text{out}_4, v24
lvx v24, $x20, $key_ # round[3]\addi$\text{key}_\text{key}_0, 0, 20
vncipher\text{out}_0, \text{out}_0, v25
vncipher\text{out}_1, \text{out}_1, v25
vncipher\text{out}_2, \text{out}_2, v25
vncipher\text{out}_3, \text{out}_3, v25
vncipher\text{out}_4, \text{out}_4, v25
lvx v25, $x10, $key_ # round[4]
bdnz_aesp8_xts_dec5x
subi r0, tailen, 1
vncipher\text{out}_0, \text{out}_0, v24
vncipher\text{out}_1, \text{out}_1, v24
vncipher\text{out}_2, \text{out}_2, v24
vncipher\text{out}_3, \text{out}_3, v24
vncipher\text{out}_4, \text{out}_4, v24
andi r0, r0, 16
cmpwi tailen, 0
vncipher\text{out}_0, \text{out}_0, v25
vncipher\text{out}_1, \text{out}_1, v25
vncipher\text{out}_2, \text{out}_2, v25
vncipher\text{out}_3, \text{out}_3, v25
vncipher\text{out}_4, \text{out}_4, v25
vxor$twk0, $twk0, v31
sub$inp, $inp, r0
vncipher\text{out}_0, \text{out}_0, v26
vncipher\$out1,\$out1,v26
vncipher\$out2,\$out2,v26
vncipher\$out3,\$out3,v26
vncipher\$out4,\$out4,v26
vxor\$in1,\$twk1,v31
vncipher\$out0,\$out0,v27
lvx_u\$in0,0,\$inp
vncipher\$out1,\$out1,v27
vncipher\$out2,\$out2,v27
vncipher\$out3,\$out3,v27
vncipher\$out4,\$out4,v27
vxor\$in2,\$twk2,v31
addi\$key_,\$sp,\$FRAME+15 \# rewind \$key_
vncipher\$out0,\$out0,v28
vncipher\$out1,\$out1,v28
vncipher\$out2,\$out2,v28
vncipher\$out3,\$out3,v28
vncipher\$out4,\$out4,v28
lvx24,\$x00,\$key_ \# re-pre-load round[1]
vxor\$in3,\$twk3,v31
le?vperm\$in0,\$in0,\$in0,\$leperm
vncipher\$out1,\$out1,v29
vncipher\$out2,\$out2,v29
vncipher\$out3,\$out3,v29
vncipher\$out4,\$out4,v29
lvx25,\$x10,\$key_ \# re-pre-load round[2]
vxor\$in4,\$twk4,v31
vncipher\$out0,\$out0,v29
vncipher\$out1,\$out1,v30
vncipher\$out2,\$out2,v30
vncipher\$out3,\$out3,v30
vncipher\$out4,\$out4,v30
vncipherlast\$out0,\$out0,\$twk0
vncipherlast\$out1,\$out1,\$in1
vncipherlast\$out2,\$out2,\$in2
vncipherlast\$out3,\$out3,\$in3
vncipherlast\$out4,\$out4,\$in4
mtctr$rounds
blr
   .long 0
   .byte 0,12,0x14,0,0,0,0,0

Open Source Used In FXOS MIO 2.9.1.157 1748
my $consts=1;
foreach(split("\n",$code)) {
    s/\((\[^\]\]*)\)/eval($1)/geo;

# constants table endian-specific conversion
if ($consts && m/\.(long|byte)s+(.+)(?!\w\w)$/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\?!/oor
    s/be\?!/#be#/oor
    s/lv\?!lv\?!/oor
    s/\(v\([0-9]+,\s*\)\](v\([0-9]+,\s*\)\)[v\([0-9]+,\s*\)]+/S1S3S2S4/o or
    s/\(v\[0-9]+,\s*\)\](v\[0-9]+,\s*\)[v\[0-9]+,\s*]\)\[/S1S3S2 16-54/o or
    s/lv\([v\([0-9]+,\s*\)\]lv\[0-9]+,\s*\)\]/S1S2 3-53/o;
} else { # big-endian
    s/le\?!/#le#/oor
    s/be\?!/oor
}
s\\?([a-z]+)\$/1/o;
}

print ",";}

close STDOUT;

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesp8-ppc.pl
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rand/rand_lcl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_exp2.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
# CRYPTOGRAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogram/
# ====================================================================
#
# 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 further 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";
} else {
    $SIZE_T=4;
    $LRSAVE=$SIZE_T;

$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:
lir0,-4096
lir8,0x10
mfspr$vrsave,256
lir9,0x20
mtspr256,r0
lir10,0x30
lvx_u$H,0,r4# load H

vspltisb$xC2,-16# 0xf0
vspltisb$x0,1# one
vaddubm$xC2,$xC2,$xC2# 0xe0
vxor$zero,$zero,$zero
vor$xC2,$xC2,$x0# 0xe1
vsldoi$xC2,$xC2,$zero,15# 0xe1...
vsldoi$t1,$zero,$t0,1# ...1
vaddubm$xC2,$xC2,$xC2# 0xe2...
vspltisb$t2,7
vor$xc2,$xc2,$st1# 0xc2....01
vspltb$st1,$sh,0# most significant byte
vsl$sh,$sh,$st0# H<<=1
vsrabs$st1,$st1,$st2# broadcast carry bit
vand$st1,$st1,$xc2
vxor$in,$sh,$st1# twisted H

vsldoi$sh,$in,$in,8# twist even more ...
vsldoi$xc2,$zero,$xc2,8# 0xc2.0
vsldoi$sh1,$zero,$sh,8# ... and split
vsldoi$shh,$sh,$zero,8

stvx_u$xc2,0,r3# save pre-computed table
stvx_u$sh1,r8,r3
lir8,0x40
stvx_u$sh,r9,r3
lir9,0x50
stvx_u$shh,r10,r3
lir10,0x60

vpmsumd$xl,$in,$shl# H.loH.hi
vpmsumd$xm,$in,$sh# H.hiH.lo+H.loH.hi
vpmsumd$xhr,$in,$shh# H.hiH.hi

vpmsumd$st2,$xl,$xc2# 1st reduction phase

vsldoi$st0,$xm,$zero,8
vsldoi$st1,$zero,$xm,8
vxor$xl,$xl,$st0
vxor$xhr,$xhr,$st1

vsldoi$xl,$xl,$xl,8
vxor$xl,$xl,$xl,8
vxor$xl,$xl,$xl,8

vsldoi$st1,$xl,$xl,8# 2nd reduction phase
vpmsumd$xl,$xl,$xc2
vxor$st1,$xl,$xhr
vxor$in1,$xl,$st1

vsldoi$sh2,$in1,$in1,8
vsldoi$sh2l,$zero,$sh2,8
vsldoi$sh2h,$sh2,$zero,8

stvx_u$sh2l,r8,r3# save H^2
lir8,0x70
stvx_u$sh2,r9,r3
lir9,0x80
stvx_u$sh2h,r10,r3
li $t10,0x90

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$H1,$zero,$H,8
vsldoi$H$h,$zero,$H,8
vsldoi$H2h,$zero,$H2,8
vsldoi$H2h,$zero,$H2,8

stvx_u$Hl,r8,r3# save H^3
li $r8,0x9a0
stvx_u$H,r9,r3
li r9,0xb0
stvx_uSHh,r10,r3
li r10,0xc0
stvx_uSH2l,r8,r3 # save H^4
stvx_uSH2r,r9,r3
stvx_uSH2h,r10,r3

mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,0,2,0
.long0
.size.gcm_init_p8,-.gcm_init_p8

} $code.=<<___;
.globl.gcm_gmult_p8
.align5
.gcm_gmult_p8:
    lis r0,0xfff8
    li r8,0x10
    mfspr$vrsave,256
    li r9,0x20
    mtspr256,r0
    li r10,0x30
    lvx_u$IN,0,$Xip # load Xi

    lvx_u$SHl,r8,$Htbl # load pre-computed table
    le?vsl$lemask,r0,r0
    lvx_u$SH l9,$H tbl
    le?vsp$splitb$st0,0x07
    lvx_u$SHh,r10,$Htbl
    le?vxor$lemask,$lemask,$t0
    lvx_u$sx$C2,0,$H tbl
    le?vperm$IN,$IN,$IN,$lemask
    vxor$zero,$zero,$zero

    vpmsumd$XL,$IN,$SHl# H.loXi.lo
    vpmsumd$Xm,$IN,$SH# H.hiXi.lo+H.loXi.hi
    vpmsumd$Xh,$IN,$Sh# H.hiXi hi

    vpmsumd$t2,$Xl,$sx$C2# 1st reduction phase

    vsldoi$t0,$Xm,$zero,8
    vsldoi$t1,$zero,$Xm,8
    vxor$XL,$XL,$t0
    vxor$Xh,$Xh,$t1
vsldoi $X1,$X1,$X1,8
vxor $X1,$X1,$t2

vsldoi $t1,$X1,$X1,8 # 2nd reduction phase
vpmusum $X1,$X1,$x$C2
vxor $t1,$t1,$Xh
vxor $X1,$X1,$t1

le?vperm $X1,$X1,$X1,$x$lemask
stvx_u $X1,0,$Xip # write out Xi

mtspr256,$vs$ave
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 $vs$ave,256
li r9,0x20
mtspr256,r0
li r10,0x30
lvx_u $X1,0,$Xip # load Xi

lvx_u $SH1,r8,$Htbl # load pre-computed table
li r8,0x40
le?vsl $x$lemask,r0,r0
lvx_u $SH1,r9,$Htbl
li r9,0x50
le?vsltisb $s0,0x07
lvx_u $SHh,r10,$Htbl
li r10,0x60
le?vxor $x$lemask,$x$lemask,$s0
lvx_u $x$C2,r0,$Htbl
le?vperm $X1,$X1,$X1,$x$lemask
vxor $zero,$zero,$zero

$ [UCMP] i$len,64
bge $gcm_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,$XI
beq Lshort

lvx_uSH2l,r8,SHtbl # load H^2
lir8,16
lvx_uSH2,r9,SHtbl
addr9,$inp,$len # end of input
lvx_uSH2h,r10,SHtbl
be? b Loop_2x

.align 5
Loop_2x:
lvx_u$IN1,0,$inp
le?vperm$IN1,$IN1,$IN1,$lemask

subic $len,$len,32
vpmsumd$XI,$IN1,SH2l# H^2.loXi.lo
vpmsumd$XI1,$IN1,SHl# H.loXi+1.lo
subfer0,r0,r0# borrow?1:0
vpmsumd$Xm,$IN1,SH2# H^2.hiXi.lo+H^2.loXi.hi
vpmsumd$Xm1,$IN1,SH# H.hiXi+1.lo+H.loXi+1.hi
andr0,r0,$len
vpmsumd$Xh,$IN1,SH2h# H^2.hiXi.hi
vpmsumd$Xh1,$IN1,SHh# H.hiXi+1.hi
add$inp,$inp,r0

vxor$XI,$XI,$XI1
vxor$Xm,$Xm,$Xm1

vpmsumd$t2,$XI,$xC2# 1st reduction phase

vsldoi$t0,$Xm,$zero,8
vsldoi$t1,$zero,$Xm,8
vxor$Xh,$Xh,$Xh1
vxor$XI,$XI1,$t0
vxor$Xh,$Xh,$t1

vsldoi$XI,$XI,$XI,8
vxor$XI,$XI1,$t2
lvx_u$IN,r8,$inp
addi$inp,$inp,32

vsldoi$t1,$XI,$XI,8# 2nd reduction phase
vpmsumd$XI,$XI,$xC2
le?vperm$IN,$IN,$IN,$lemask
vxor$t1,$t1,$Xh
vxor$IN,$IN,$t1
vxor\$IN,$IN,$XI
$UCMPr9.$inp
bgtLoop_2x# done yet?

cmplwi\$len,0
bncLeven

Lshort:
vpmsumd$XI,$IN,$HI# H.loXi.lo
vpmsumd$Xm,$IN,$HI# H.hiXi.lo+H.loXi.hi
vpmsumd$Xh,$IN,$HI# H.hiXi.hi

vpmsumd$t2,$XI,$XC2# 1st reduction phase

vsldoi$t0,$Xm,$zero,8
vsldoi$t1,$zero,$Xm,8
vxor$XL,$XI,$t0
vxor$XH,$XI,$t1

vsldoi$XI,$XI,$XI,8
vxor$XL,$XI,$t2

vsldoi$t1,$XI,$XI,8# 2nd reduction phase
vpmsumd$XI,$XI,$XC2
vxor$t1,$t1,$XH

Leven:
vxor$XH,$XI,$t1
le?vperm$XI,$XI,$XI,$lemask
stvx_u$XI,0,$Xip# write out Xi

mtspr256,$sr
blr
.long0
.byte0,12,0x14,0,0,0,4,0
.long0

{my ($XI3,$Xm2,$IN2,$HI3l,$HI3,$HI3h,
   $XH3,$Xm3,$IN3,$HI4l,$HI4,$HI4h) = map("v$_",(20..31));
my $IN0=$IN;
my ($HI21l,$HI21h,$loperm,$hiperm) = ($HI1,$HIh,$HI21,$HI2h);

$code.=<<___;
.align5
.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_uSH2l,r8,$Htbl# load H^2
li r8, 0x70
lvx_uSH2, r9,$Htbl
li r9, 0x80
vspltisb$t1,8 # 0x0808..0808
#lvx_uSH2h,r10,$Htbl
li r10, 0x90
lvx_uSH3l,r8,$Htbl# load H^3
li r8, 0xa0
lvx_uSH3, r9,$Htbl
li r9, 0xb0
lvx_uSH3h,r10,$Htbl
li r10, 0xc0
lvx_uSH4l,r8,$Htbl# load H^4
li r8, 0x10
lvx_uSH4, r9,$Htbl
li r9, 0x20
lvx_uSH4h,r10,$Htbl
li $t0,0x30

vsldoi$t2,$zero,$t1,8 # 0x0000..0808
vaddub$mhiperm,$t0,$t2,1617
vaddub$mloperm,$t1,$hiperm,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,$Xl3
vpmsumd$Xh1,$IN1,$Xh3

vperm$H21l,$H2,$H,$hiperm
vperm$S0,$IN2,$IN3,$loperm
vperm$SH21h,$H2,$H,$loperm
vperm$S1,$IN2,$IN3,$hiperm
vpmsumd$Xm2,$IN2,$H2,$H
vpmsumd$Xm3,$IN3,$H3
vpermt$X2,$H2,$H2,$H2h
vpermt$X3,$IN2,$IN2,$H
vpermt$X4,$IN3,$IN3,$H

vxor$Xm2,$Xm2,$Xm1
vxor$Xl1,$Xl1,$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,$IN1,$IN1
le?vperm$IN2,$IN2,$IN2,$IN2
le?vperm$IN3,$IN3,$IN3,$IN3
le?vperm$IN0,$IN0,$IN0,$IN0

vpmsumd$Xl,$Xh,$H4l # H^4.loXi.lo
vpmsumd$Xm,$Xh,$H4 # H^4.hiXi.lo+H^4.loXi.hi
vpmsumd$Xh,$Xh,$H4h # H^4.hiXi.hi
vpmsumd$Xm1,$IN1,$H3 # H^4.hiXi.lo+H^4.loXi.hi

vpmsumd$Xh1,$IN1,$SH3
vpmsumd$Xh1,$IN1,$SH3

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,8
vxor$Xl,$Xl,$t2
vsldoi$t1,$Xl,8 # 2nd reduction phase

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
bgeLoop_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$Xl,$Xl,$xC2# 1st reduction phase

vsldoi$t0,$Xm,$zero,8
vsldoi$t1,$zero,$Xm,8
vxor$Xh,$Xh,$Xh3
vxor$Xl,$Xl,$st0
vxor$Xh,$Xh,$st1

vsldoi$Xl,$Xl,$Xl,8
vxor$Xl,$Xl,$st2

vsldoi$t1,$Xl,$Xl,8# 2nd reduction phase
vpmsumd$Xl,$Xl,$xC2
vxor$t1,$st1,$Xh
vxor$Xl,$Xl,$st1

addc.$len,$len,4
beq.L.done_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

vpmsumd$Xm2,$IN1,$IN2,$Shiperm
vpmsumd$Xm2,$IN1,$IN2,$Shiperm
vpmsumd$Xm3,$IN2,$SH# $H^2.loXi+1.hi+H^2.hiXi+1.lo
vpmsumd$Xm3,$IN2,$SH# $H.hiXi+2.lo +H.loXi+2.hi
vpmsumd$Xl3,$st0,$SH21l# $H^2.loXi+1.1lo+H.loXi+2.lo
vpmsumd$Xh3,$st1,$SH21h# $H^2.hiXi+1.hi+H.hiXi+2.hi
vxor$Xm3,$Xm3,$Xm2
b Ltail_4x

.align4
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,$zero,$H,8
vmr$H4, $H
vsldoi$H4h,$H,$zero,8
vpmsumd$Xl3,$t0, $H21l# H.loXi+1.lo
vpmsumd$Xm3,$IN1,$SH# H.hiXi+1+H.loXi+2.hi
vpmsumd$Xh3,$t1, $H21h# H.hiXi+1.hi
b Ltail_4x

.align4
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$Xh3,$Xh3,$Xh3

b Ltail_4x

Ldone_4x:
le?vperm$Xl,$Xl,$Xl,$lemask
stvx_u$Xl,0,$Xip# write out Xi

lir10,'15+6*$SIZE_T'
lir11,'31+6*$SIZE_T'
mtspr256,$vrsave
lvxv20,r10,$sp
addir10,r10,32
lvxv21,r11,$sp
addir11,r11,32
lvx22,r10,$sp
addi10,r10,32
lvx23,r11,$sp
addi11,r11,32
lvx24,r10,$sp
addi10,r10,32
lvx25,r11,$sp
addi11,r11,32
lvx26,r10,$sp
addi10,r10,32
lvx27,r11,$sp
addi11,r11,32
lvx28,r10,$sp
addi10,r10,32
lvx29,r11,$sp
addi11,r11,32
lvx30,r10,$sp
lvx31,r11,$sp
addi$sp,$sp,$FRAME
blr
.long 0
.byte 0,12,0x04,0,0x80,0,4,0
.long 0

___

foreach (split("\n",$code)) {
  s/`([^`]*)`/eval $1/geo;
  if ($flavour =~ /le$/) { # little-endian
  s/le\?//o
  s/be\?/#be#/o;
  } else {
  s/le\?/#le#/o
  s/be\?//o;
  }
  print $_,"\n";
}

close STDOUT; # enforce flush

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/des/fips_desmovs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/aes/fips_aesavs.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1596426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/bn/bn_mod.c
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/stack/safestack.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/symhacks.h
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/err/err.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_mont.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/uid.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/o_time.h

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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# 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,$Klo)=("A9","A8");
(SMAhi,SMAlo) =($T2hi,$T2lo);
($t1hi,$t1lo)=(Khi,"B2");
SCTXB=$t1lo;

($Xhi,$Xilo)=("A5","B5");# circular/ring buffer

$code.=<<<___;
.text
.if ASSEMBLER_VERSION<7000000
.asg0,__TI_EABI__
.endif
.if __TI_EABI__
.nocmp
.asgsha512_block_data_order.sha512_block_data_order
.endif

.asgB3,RA
.asgA15,FP
.asgB15,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 $NUM
||MVK-128,B0
||!A0]BNOPRA; if ($NUM==0) return;
||[A0]STWF,*SP--;(40); save frame pointer
||[A0]MV$SP,FP
||[A0]MVK0x00404,B1
||[A0]STDWB11:B10,*SP[3]
||[A0]STDWA13:A12,*FP[-3]
||[A0]MVK0x60000,B1
||[A0]STDWA11:A10,*SP[1]
||[A0]MVCB1,AMR; setup circular addressing
||[A0]ADDB0,SP,SP; alloca(128)
.if __TI_EABI__
||[A0]ANDB0,SP,SP; align stack at 128 bytes
||[A0]ADDKPC_sha512_block,B1
|| [A0]MVKL\SPC\_OFFSET(K512,\_sha512_block),\$K512
[A0]MVKH\SPC\_OFFSET(K512,\_sha512_block),\$K512
|| [A0]SUBAWSP,2,SP; reserve two words above buffer
 .else
 [A0]ANDB0,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]SUBAWSP,2,SP; reserve two words above buffer
 .endif
ADDAWSP,3,\$Xilo
ADDSP,4*2,\$Xihi; ADDAWSP,2,\$Xihi

|| MV\$CTXA,\$CTXB
LDW\$[CTXA][0^\.LITTLE\_ENDIAN],\$Ahi; load ctx
|| LDW\$[CTXB][1^\.LITTLE\_ENDIAN],\$Alo
 || ADDB1,SK512,SK512
 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?:
MVK15,B0; loop counters
|| MVK64,B1
 || SUBA0,1,A0
 MVSAhi,\$Actxhi
 || MVSAlo,\$Actxlo
 MVSBhi,\$Bctxhi
 || MVSBlo,\$Bctxlo
 MVSChi,\$Cctxhi
 || MVSClo,\$Cctxlo
 MVDSDhi,\$Dctxhi
 || MVDSDlo,\$Dctxlo
 MVSEhi,\$Ectxhi
 || MVSElo,\$Ectxlo

Open Source Used In FXOS MIO 2.9.1.157 1801
||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
  SWAP4B10,$T1hi
  || SWAP4B11,$T1lo
  SWAP2ST1hi,$T1hi
  || SWAP2ST1lo,$T1lo
  .endif
  STWST1hi,*$Xihi++[2]; original loop16_79?
  || STWST1lo,*$Xiho++[2]; X[i] = T1
  || ADD$Hhi,$T1hi,$T1hi
  || ADD$Hlo,$T1lo,$T1hi
  || ADDUSHlo,$T1lo,$T1carry:$T1lo; T1 += h
  || SHRUSEhi,14,$S1hi
  || SHLSEhi,32-14,$S1lo
  loop16_79?:
  XOR$Fhi,$Ghi,$CHhi
  || XOR$Flo,$Glo,$CHlo
  || ADDKH$I1hi,$T1hi
  || ADDUKL0,$T1carry:$T1lo,$T1carry:$T1lo; T1 += K512[i]
  || SHRUSElo,14,$t0lo
  || SHLSElo,32-14,$t0hi
  XOR$t0hi,$S1hi,$S1hi
  || XOR$t0lo,$S1lo,$S1lo
  || AND$Ehi,$CHhi,$CHhi
  || AND$Elo,$CHlo,$CHlo
  || ROTLS$Ghi,0,$Hhi
  || ROTLS$Glo,0,$Hlo; h = g
  || SHRUSEhi,18,$t0hi
  || SHLSEhi,32-18,$t0lo
  XOR$t0hi,$S1hi,$S1hi
  || XOR$t0lo,$S1lo,$S1lo
  || XOR$Ghi,$CHhi,$CHhi
  || XOR$Glo,$CHlo,$CHlo; Ch(e,f,g) = ((f^g)&e)^g
  || ROTLS$Fhi,0,$Ghi
  || ROTLS$Flo,0,$Glo; g = f
  || SHRUSElo,18,$t0lo
  || SHLSElo,32-18,$t0hi
  XOR$t0hi,$S1hi,$S1hi
  || XOR$t0lo,$S1lo,$S1lo
  || OR$Ahi,$Bhi,$MAJhi
||(ORS)\text{lo}, (SB)\text{lo}, (SMAJ)\text{lo} \\
||\text{ROTLS}Ehi,0,SFhi \\
||\text{ROTLS}El0,0,SLfO; f = e \\
||\text{SHRUSEhi},41-32,St0hi \\
||\text{SHLSEhi},64-41,St0hi \\
|XOR|St0hi,SS1hi,SS1hi \\
|||XOR|St0lo,SS1lo,SS1lo; Sigma1(e) \\
||\text{ANDS}Ch,MAJhi,MAJhi \\
||\text{ANDS}Cl0,MAJlo,MAJlo \\
||\text{ROTLS}Dhi,0,SEhi \\
||\text{ROTLS}Dlo,0,SElo; e = d \\
||\text{SHRUSElo},41-32,St0hi \\
||\text{SHLSElo},64-41,St0lo \\
|XOR|St0hi,SS1hi,SS1hi \\
|||XOR|St0lo,SS1lo,SS1lo; Sigma1(e) \\
||\text{ANDS}Ahi,SBhi,St1hi \\
||\text{ANDS}Alo,SBlo,St1lo \\
||\text{ROTLS}Ch,0,SDhi \\
||\text{ROTLS}Clo,0,SDlo; d = c \\
||\text{SHRUS}Ahi,28,SS0hi \\
||\text{SHLS}Alo,32-28,SS0lo \\
|ORS|t1hi,MAJhi,MAJhi \\
|||ORS|t1lo,MAJlo,MAJlo; Maj(a,b,c) = ((a|b)&c)|(a&b) \\
||\text{ADD}SCHhi,ST1hi,ST1hi \\
||\text{ADDUS}CHlo,ST1carry:ST1lo,ST1carry:ST1lo; T1 += Ch(e,f,g) \\
||\text{ROTLS}Bhi,0,SChi \\
||\text{ROTLS}Bl0,0,SClo; c = b \\
||\text{SHRUS}Alo,28,St0lo \\
||\text{SHLS}Alo,32-28,St0hi \\
|XOR|St0hi,SS0hi,SS0hi \\
|||XOR|St0lo,SS0lo,SS0lo \\
|||ADDSS1hi,ST1hi,ST1hi \\
|||ADDUS$1lo,ST1carry:ST1lo,ST1carry:ST1lo; T1 += Sigma1(e) \\
||\text{ROTLS}Ahi,0,SBhi \\
||\text{ROTLS}Alo,0,SBlo; b = a \\
||\text{SHRUS}Ahi,34-32,St0lo \\
||\text{SHLS}Ahi,64-34,St0hi \\
|XOR|St0hi,SS0hi,SS0hi \\
|||XOR|St0lo,SS0lo,SS0lo \\
|||ADDSSMAJhi,ST1hi,ST2hi \\
|||ADDUSMAJlo,ST1carry:ST1lo,ST2carry:ST2lo; T2 = T1+Maj(a,b,c) \\
||\text{SHRUS}Alo,34-32,St0hi \\
||\text{SHLS}Alo,64-34,St0lo \\
|XOR|St0hi,SS0hi,SS0hi \\
|||XOR|St0lo,SS0lo,SS0lo \\
|||ADDSEhi,ST1hi,ST1hi \\
|||ADDUSElo,ST1carry:ST1lo,ST1carry:ST1lo; T1 += e \\
||\text{SHRUS}Ahi,39-32,St0lo
||SHLSAhi,64-39,$t0hi
[B0]BNOPloop0_15?
||[B0]LDNDW*$INP++,B11:B10; pre-fetch input
XORS0hi,$S0hi,$S0hi
||XORS0lo,$S0lo,$S0lo
||SHRUSAl0,39-32,$t0hi
||SHLSAl0,64-39,$t0lo
||[!B0]LDW*{$Xih}{28},$T1hi
||[!B0]LDW*{$Xilo}{28},$T1lo; X[i+14]
XORS0hi,$S0hi,$S0hi
||XORS0lo,$S0lo,$S0lo; Sigma0(a)
||ADDST1carry,$T1hi,$S1hi
||ROTL$T1lo,0,$Elo; e = T1, "ghost" value
||[B1]BNOPbreak?
ADD$S0hi,$T2hi,$T2hi
||ADDS$S0lo,$T2carry:$T2lo,$T2carry:$T2lo; T2 += Sigma0(a)
||[B1]LDDW*$K512[2],Khi:$Klo; pre-fetch K512[i]
NOP; avoid cross-path stall
ADDST2carry,$T2hi,$Ahi
|MVST2lo,$Alo; a = T2
||[B0]SUBB0,1,B0
;;;;= branch to loop00_15? is taken here
| [B1]LDW*{$Xhi}[2],ST2hi
| [B1]LDW*{$Xilo}[2],ST2lo; X[i+1]
| [B1]SHRUST1hi,19,$S1hi
| [B1]SHLST1hi,32-19,$S1lo
| [B1]SHRUST1lo,19,$t0lo
| [B1]SHLST1lo,32-19,$t0hi
;;;;= branch to break? is taken here
XORS0hi,$S1hi,$S1hi
||XORS0lo,$S1lo,$S1lo
||SHRUST1hi,61-32,$t0lo
||SHLST1hi,64-61,$t0hi
XORS0hi,$S1hi,$S1hi
||XORS0lo,$S1lo,$S1lo
||SHRUST1lo,61-32,$t0hi
||SHLST1lo,64-61,$t0lo
XORS0hi,$S1hi,$S1hi
||XORS0lo,$S1lo,$S1lo
||SHRUST1hi,6,$t0hi
||SHLST1hi,32-6,$t0lo
XORS0hi,$S1hi,$S1hi
||XORS0lo,$S1lo,$S1lo
||SHRUST1lo,6,$t0lo
||LDW*{$Xhi}[18],$T1hi
||LDW*{$Xilo}[18],$T1lo; X[i+9]
XORS0lo,$S1lo,$S1lo; sigma1(X[i+14])
||LDW*{Xihi}[0],SCHhi
||LDW*{Xiho}[0],SCHlo; X[i]
||SHRUST2hi,1,$S0hi
||SHLST2hi,32-1,$S0lo
SHRUST2lo,1,$t0lo
||SHLST2lo,32-1,$t0hi
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||SHRUST2hi,8,$t0hi
||SHLST2hi,32-8,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||SHRUST2lo,8,$t0lo
||SHLST2lo,32-8,$t0hi
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADD$S1hi,$T1hi,$T1hi
||ADDUS1lo,$T1lo,$T1carry:$T1lo; T1 = X[i+9]+sigma1()
||SHRUST2hi,7,$t0hi
||SHLST2hi,32-7,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADD$SChhi,$T1hi,$T1hi
||ADDUSChlo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += X[i]
||SHRUST2lo,7,$t0lo
||[B1]BNOPloop16_79?
XOR$t0lo,$S0lo,$S0lo; sigma0(Xi[i+1])
ADD$S0hi,$T1hi,$T1hi
||[ADDUS0lo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += sigma0()]
||[B1]SUBB1,1,B1
NOP; avoid cross-path stall
ADDS1carry,$T1hi,$T1hi

STW*$T1hi,*$Xihi++[2]; copied "top" bundle
||STW$T1lo,*$Xiho++[2]; X[i] = T1
||ADD$S$hi,$T1hi,$T1hi
||ADDUS$Hlo,$T1lo,$T1carry:$T1lo; T1 += h
||SHRUSEhi,14,$S1hi
||SHLSEhi,32-14,$S1lo
;===== branch to loop16_79? is taken here

break?:
ADDS$Ahi,SActxhi,SAhi; accumulate ctx
||ADDUS$alo,SActxlo,SActxlo:$Alo
||[A0]LDNDW*$SINP++,B11:B10; pre-fetch input
||[A0]ADDK-640,$K512; rewind pointer to K512
ADDS$Bhi,SBctxhi,SBhi
||ADDUSBlo,$Bctxlo,$Bctxlo:$Blo
||[A0]LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]
  ADDSCh$i,$Cctxhi,$Chi
||ADDUSCl$o,$Cctxlo,$Cctxlo:$Clo
||ADDSActxlo,$Ahi,$Ahi
||[!A0]MVSCTXA,$CTXB
  ADDSDhi,$Dctxhi,$Dhi
||ADDUSDlo,$Dctxlo,$Dctxlo:$Dlo
||ADDSctxlo,$Bhi,$Bhi
||[!A0]STWSAhi,*$[CTXA][0^.LITTLE_ENDIAN]; save ctx
||[!A0]STWSAl$o,*$[CTXB][1^.LITTLE_ENDIAN]
  ADDSEhi,$Ectxhi,$Ehi
||ADDUSElo,$Ectxlo,$Ectxlo:$Elo
||ADDSctxlo,$Chi,$Chi
||[A0]BNOPouterloop?
||[!A0]STWSBhi,*$[CTXA][2^.LITTLE_ENDIAN]
||[!A0]STWSBl$o,*$[CTXB][3^.LITTLE_ENDIAN]
  ADDSFhi,$Fctxhi,$Fhi
||ADDUSFllo,$Fctxlo,$Fctxlo:$Flo
||ADDSctxlo,$Dhi,$Dhi
||[!A0]STWSChi,*$[CTXA][4^.LITTLE_ENDIAN]
||[!A0]STWSClo,*$[CTXB][5^.LITTLE_ENDIAN]
  ADDSGhi,$Gctxhi,$Ghi
||ADDUSGlo,$Gctxlo,$Gctxlo:$Glo
||ADDSctxlo,$Ehi,$Ehi
||[!A0]STWSDhi,*$[CTXA][6^.LITTLE_ENDIAN]
||[!A0]STWSDlo,*$[CTXB][7^.LITTLE_ENDIAN]
  ADDSHhi,$Hctxhi,$Hhi
||ADDUSHlo,$Hctxlo,$Hctxlo:$Hlo
||ADDSctxlo,$Fhi,$Fhi
||[!A0]STWSEhi,*$[CTXA][8^.LITTLE_ENDIAN]
||[!A0]STWSEl$o,*$[CTXB][9^.LITTLE_ENDIAN]
  ADDSGctxlo,$Ghi,$Ghi
||[!A0]STWSFhi,*$[CTXA][10^.LITTLE_ENDIAN]
||[!A0]STWSFlo,*$[CTXB][11^.LITTLE_ENDIAN]
  ADDSHctxlo,$Hhi,$Hhi
||[!A0]STWSGhi,*$[CTXA][12^.LITTLE_ENDIAN]
||[!A0]STWSGlo,*$[CTXB][13^.LITTLE_ENDIAN]
;;===== branch to outerloop? is taken here
  STWSHhi,*$[CTXA][14^.LITTLE_ENDIAN]
|STWSHlo,*$[CTXB][15^.LITTLE_ENDIAN]
|MVK-40,B0
|ADDFP,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
LDW*++SP(40),FP; restore frame pointer
MVK0,B0
MVCB0,AMR; clear AMR
NOP2; wait till FP is committed
.endasmfunc

.if __TI_EABI__
.sect".text:sha_asm.const"
.else
.sect".const:sha_asm"
.endif
.align128

K512:
.uword0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
.uword0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0xb605d019
.uword0x923f82a4,0xaf194f9b, 0xab1c5ed5,0xda6d8118
.uword0xd807a98,0xa3030242, 0x1283b501,0x45706fbc
.uword0x243185be,0x4ee4b28c, 0x550c7dc3,0xdfbfe4e2
.uword0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696b1
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Note:

- If you are happy with Vim, please express that by reading the rest of this
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- If you want to support further Vim development consider becoming a
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- According to Richard Stallman the Vim license is GNU GPL compatible.
  A few minor changes have been made since he checked it, but that should not
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- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

Kibaale Children's Centre (KCC) 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:
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
Finsterrueuthof 1
8134 Adliswil
Switzerland

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

vim:tw=78:ts=8:ft=help:norl:
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1.141 xterm 330

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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.)

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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.
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:

- 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.)

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

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

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Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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components (compiler, kernel, and so on) of the operating system on
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c) You must cause the whole of the work to be licensed at no
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d) If a facility in the modified Library refers to a function or a
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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
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These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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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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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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The End
#!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) = $copyright_msg =~ /.*\d{4,}/s
        or die "Year not found in README copyright message '$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'";
1.162 memstat 6.18.04-2.el7

1.162.1 Available under license:

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Component: String.prototype.endsWith
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END OF TERMS AND CONDITIONS

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<one line to give the program's name and a brief idea of what it does.>
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under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
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school, if any, to sign a "copyright disclaimer" for the program, if
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

1.167 gettext 0.20.1-r2

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

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

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

@item
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@enumerate
@item
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@item
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@item
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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.

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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
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1.174 pcre 8.32 15.el7_2.1

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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.

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

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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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
creates an executable that is a derivative of the Library (because it
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

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

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

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.

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

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1.197 go-runtime 1.12

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1.211 tcl 8.5.7

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1.214 xinetd 2.3.3

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1.215 libuser 0.60
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1.217 coreutils 8.22
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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

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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1.223 pcre 8.44

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THE BASIC LIBRARY FUNCTIONS

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1.224 libxext 1.3.1

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entire combination fits its criteria of freedom. The Lesser General
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the library.

We call this license the "Lesser" General Public License because it
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of an advantage over competing non-free programs. These disadvantages
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For example, on rare occasions, there may be a special need to
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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
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In other cases, permission to use a particular library in non-free
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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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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.)

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to use the modified definitions.)

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interface-compatible with the version that the work was made with.

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e) Verify that the user has already received a copy of these
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1.228 libsepol 2.1.9 3.el7

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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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1.230 libxext 1.3.1

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@enumerate
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1.240 linux-kernel 3.10.0

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

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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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/* 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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      customarily used for software interchange.

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

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

   d) Convey the object code by offering access from a designated 
      place (gratis or for a charge), and offer equivalent access to the 
      Corresponding Source in the same way through the same place at no 
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1.242 junit 4.1.jar.pack

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1.243 groff 1.0

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Source Files

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The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h
Macro Packages
--------------

- The `-mdoc` macro set, using the BSD license.
  
tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

- The `-me` macro set, using the BSD license.
  
tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns
---------------------

- The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
  the TeX system written by Donald E. Knuth; the master file can be found
  at

  ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

  It has been renamed for consistency, i.e., to make patterns available
  under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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- The file `tmac/hyphen.fr' contains the same patterns as the file
  `frhyph.tex' (for TeX), which can be found at

  http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at


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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyph-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive


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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with
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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(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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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
57e721e38d1266c2d055067c18f2ce9 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

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ts_dev</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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<tbody>
<tr>
<td><strong>ts_dev</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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<th>Blocks</th>
<th>Id</th>
<th>System</th>
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<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD

```
2e1cee529cb59c9341afe0443f196a1 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 [fsise 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 [fsise 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):

<table>
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<th>4.4LFS</th>
<th>d</th>
<th>boot</th>
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<td>6</td>
<td>Eighth Edition</td>
<td>a</td>
<td>unknown</td>
<td>e</td>
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<td>7</td>
<td>4.2BSD</td>
<td>b</td>
<td>HPFS</td>
<td>f</td>
<td>HFS</td>
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<tr>
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<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
<td>c</td>
<td>ISO-9660</td>
<td>10</td>
<td>AdvFS</td>
</tr>
<tr>
<td>4</td>
<td>System V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):  

1.248 libffi 3.1.1  

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1.249 glibc 2.17-196.el7
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sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.250 selinux 2.107-1.el7_6

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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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1.259 zlib 1.2.11

1.259.1 Available under license :

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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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1.267 dhcp 4.2.5 42.el7.centos

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<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <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:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

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

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

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1.268 apr-util 1.5.4

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1.273 chardet 3.0.4

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1.274 curl 7.54.0

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

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1.275 inetutils 1.9.2

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@c ispell-local-pdict: "ispell-dict"
1.277 grep 2.20 2.el7

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

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

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

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1.289 libxml 0.18.3.2

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<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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1.294 cracklib 2.9.0 11.el7
1.294.1 Available under license :

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

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

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<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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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
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.

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

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

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

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

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

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216
> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> > 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=GPL-2 ...
it was a modified artistic license ... i didn't notice the license=change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of =
library to dictate to application writes what license they should be using.=
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 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
>
> 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
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > 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
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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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
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Nathan Neulinger is the only one who can actually make said change ...

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

--------

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

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

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

-----------------------------------------

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

Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

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

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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= 
change until it was mentioned in the latest notes.

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

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

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> >=20
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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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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 smtp1srv.mst.edu (131.151.1.43)
by scanin-ipv6.cc.umr.edu with SMTP; 1 Oct 2007 16:59:54 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxptr020623
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 11c0cX-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: <1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@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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ideal.

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

Happy now? :-) 

-a

1.295 foxtrot-core 4.0

1.296 ipmiutil 3.1.3

1.296.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ipmiutil
Upstream-Contact: Andy Cress <arcress at users.sourceforge.net>
Source: http://ipmiutil.sourceforge.net
Comment: This COPYING file includes detail about each source file in ipmiutil

Files: *
Copyright: 2001-2008, Intel Corporation
2009-2012, Kontron America
2013, Andy Cress <arcress at users.sourceforge.net>
License: BSD-3-clause

Files: lib/lanplus/*
Copyright: 2003 Sun Microsystems, Inc.
License: BSD-3-clause

Files: util/itsol.c
Copyright: 2005 Tyan Computer Corp.
License: BSD-3-clause

Files: util/iekanalyzer.c
Copyright: 2007 Kontron Canada, Inc.
2003 Sun Microsystems, Inc.
License: BSD-3-clause

Files: util/md2.h
Copyright: 2003 FreeIPMI Core Team
Comment: Build does not include this file, unless 'configure --enable-gpl'
License: GPL-2.0
Files: util/AnsiTerm.cpp
Copyright: 2009 Robert Nelson <robertnelson at users.sourceforge.net>
License:   BSD-2-clause

Files: util/oem_dell.c
Copyright: 2008, Dell Inc
License:   BSD-3-clause

Files: util/oem_sun.c
Copyright: 2005 Sun Microsystems, Inc.
License:   BSD-3-clause

Files: util/ifirewall.c
Copyright: 2010 Kontron America Inc.
     2005 International Business Machines, Inc.
     2003 Sun Microsystems, Inc.
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Files: util/ifwum.c util/ihpm.c
Copyright: 2004-2006 Kontron Canada, Inc.
     2003 Sun Microsystems, Inc.
License:   BSD-3-clause

Files: util/md5.c
Comment: Aladdin unrestricted license is compatible with BSD-3-clause
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ghost@aladdin.com

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also obtain it by writing to the Free Software Foundation, Inc.,
51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.
Format:  http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ipmiutil
Upstream-Contact: Andy Cress <arcress at users.sourceforge.net>
Source:  http://ipmiutil.sourceforge.net
Comment: This package was debianized by Andy Cress on 2010-10-29,
with Debian package updates by Alex Waite on 2013-06-14

Files: *
Copyright: 2001-2008, Intel Corporation
2009-2012, Kontron America
2013, Andy Cress <arcress at users.sourceforge.net>
License: BSD-3-clause

Files: lib/lanplus/*
Copyright: 2003 Sun Microsystems, Inc.
License: BSD-3-clause

Files: util/itsol.c
Copyright: 2005 Tyan Computer Corp.
License: BSD-3-clause

Files: util/iekanalyzer.c
Copyright: 2007 Kontron Canada, Inc.
2003 Sun Microsystems, Inc.
License: BSD-3-clause

Files: util/md2.h
Copyright: 2003 FreeIPMI Core Team
Comment: Optional to include this file, based on configure options
License: GPL-2.0

Files: util/AnsiTerm.cpp
Copyright: 2009 Robert Nelson <robertnelson at users.sourceforge.net>
License: BSD-2-clause

Files: util/oem_dell.c
Copyright: 2008, Dell Inc
License: BSD-3-clause

Files: util/oem_sun.c
Copyright: 2005 Sun Microsystems, Inc.
License: BSD-3-clause

Files: util/ifirewall.c
Copyright: 2010 Kontron America Inc.
2005 International Business Machines, Inc.
2003 Sun Microsystems, Inc.
License: BSD-3-clause

Files: util/ifwum.c util/ihpm.c
Copyright: 2004-2006 Kontron Canada, Inc.
2003 Sun Microsystems, Inc.
License: BSD-3-clause

Files: util/md5.c
Comment: Aladdin unrestricted license is compatible with BSD-3-clause
License: Aladdin
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2. Altered source versions must be plainly marked as such, and must not be
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L. Peter Deutsch
ghost@aladdin.com

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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
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A. HISTORY OF THE SOFTWARE

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

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

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

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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
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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

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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
57e721e38d1266ec2df055067e18f2ef9 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
1bebfb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dffe51a88a065db233418dd73fbe 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

Open Source Used In FXOS MIO 2.9.1.157 4052
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
2e1cee529cb59e9341afe0443f196a1 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):

1.312 openssl 0.9.8e 29.el7.centos.3

1.312.1 Available under license:

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1.313 cracklib 2.9.1

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----------

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

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

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

-- Nathan
=20
-------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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

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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =20
a=20
library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.
=20
=Dmike

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
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 Fry sing er <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.

-----------------------
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-ipv6.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-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: <1b1b3fd8071001090808kk11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd8071001090808kk11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

Happy now? :-)

-a

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Version 2.1, February 1999

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[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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the user installs one, as long as the modified version is
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<<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.314 findutils 4.5.11 5.el7
1.314.1 Available under license :

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$Id: webserver.h,v 1.2 2006/06/11 21:46:38 adam Exp $

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* Author: Adam Dunkels <adam@sics.se>

* $Id: httpd-fsdata.h,v 1.1 2006/06/07 09:13:08 adam Exp $
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*$Id: lc-switch.h,v 1.2 2006/06/12 08:00:30 adam Exp$

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* $Id: uip-neighbor.h,v 1.2 2006/06/12 08:00:30 adam Exp $
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/**
 
defgroup pt Protothreads

Protothreads are a type of lightweight stackless threads designed for severely memory constrained systems such as deeply embedded systems or sensor network nodes. Protothreads provides linear code execution for event-driven systems implemented in C. Protothreads can be used with or without an RTOS.

Protothreads are 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
Protothreads are very lightweight, stackless threads that provide 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 provide conditional blocking inside a C function.

In memory-constrained systems, such as deeply embedded systems, traditional multi-threading may have 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 use 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 provide blocking contexts inside a C function, whereas Python generators provide multiple exit points from a generator function.

\section pt-autovars Local variables

\note
Because protothreads do not save the stack context across a blocking
call, local variables are not preserved when the protothread
blocks. This means that local variables should be used with utmost
care - if in doubt, do not use local variables inside a protothread!

\section pt-scheduling Scheduling

A protothread is driven by repeated calls to the function in which the
protothread is running. Each time the function is called, the
protothread will run until it blocks or exits. Thus the scheduling of
protothreads is done by the application that uses protothreads.

\section pt-impl Implementation

Protothreads are implemented using \ref lc "local continuations". A
local continuation represents the current state of execution at a
particular place in the program, but does not provide any call history
or local variables. A local continuation can be set in a specific
function to capture the state of the function. After a local
continuation has been set can be resumed in order to restore the state
of the function at the point where the local continuation was set.

Local continuations can be implemented in a variety of ways:

-# by using machine specific assembler code,
-# by using standard C constructs, or
-# by using compiler extensions.

The first way works by saving and restoring the processor state,
except for stack pointers, and requires between 16 and 32 bytes of
memory per protothread. The exact amount of memory required depends on
the architecture.

The standard C implementation requires only two bytes of state per
protothread and utilizes the C switch() statement in a non-obvious way
that is similar to Duff's device. This implementation does, however,
impose a slight restriction to the code that uses protothreads in that
the code cannot use switch() statements itself.

Certain compilers has C extensions that can be used to implement
protothreads. GCC supports label pointers that can be used for this
purpose. With this implementation, protothreads require 4 bytes of RAM
per protothread.

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*/
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Author: Adam Dunkels <adam@sics.se>

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*
* $Id: uip-neighbor.c,v 1.2 2006/06/12 08:00:30 adam Exp $
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 * 
 * $Id: tapdev.h,v 1.1 2002/01/10 06:22:56 adam Exp$
 * 
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*
* $Id: telnetd.c,v 1.2 2006/06/07 09:43:54 adam Exp $
*
*/

Found in path(s):
* /opt/cola/permits/1151118424_1618480542.71/0/uip-master-zip/uip-master/apps/telnetd/telnetd.c

1.317 curl 7.29.0 25.el7.centos

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krb4

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL  
1.318 sudo 1.8.10

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

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

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryninger, Mike
G., Daniel Richard
Gailly, Jean-loup
Garcia-Fontes, Walter
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hein, Jochen
Jerovek, Damir
Kavronen, Jorma
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnar, Tomislav
Marchal, Frédéric
Margievuius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Taniguchi, Yasuaki
Uranga, Mikel Olasagasti
Wang, Wylmer

1.319 wget 1.15

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1.320 curl 7.43.0
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License Mixing

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

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

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

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## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

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## WolfSSL
Open Source Used In FXOS MIO 2.9.1.157 4186

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## libressl

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## c-ares

(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

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

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## libssh2

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1.321 boost 1.68.0

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

HISTORY -

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

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

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@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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<!DOCTYPE html>
<html>
<head></head>
<body>
<h3>
 Copyright Test
</h3>
<p class="copyright">
 1963, 1964, 1965 Jane Doe
</p>
<p class="copyright">
 2018 Joe Blow, John Coe
</p>
<p class="copyright">
 1977, 1985 Someone else
</p>
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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.

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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
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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
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1.326 time 1.7

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1.327 groff 1.22.2

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```text
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c
```
Macro Packages
-------------

. The -mdoc macro set, using the BSD license.

   tmac/doc.tmac
   tmac/doc-old.tmac
   tmac/doc-common
   tmac/doc-ditroff
   tmac/doc-nroff
   tmac/doc-syms
   tmac/groff_mdoc.man

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   tmac/e.tmac
   tmac/groff_me.man
   doc/meintro.me
   doc/meintro_fr.me
   doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
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at

   ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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. The file `tmac/hyphen.fr' contains the same patterns as the file
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyph-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

    http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

    http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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--- text ---

**AUTHOR**

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K1L 6X6

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

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1.328 strace 4.12

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1.329 python-setuptools 41.2.0

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1.330 tftp-hpa 5.2-12.el7

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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/misc.c
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Found in path(s):
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.8.in
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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa- zip/tftp-hpa-distrotech-tftp-
  hpa/common/tftpsubs.h
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
  hpa/tftp/extern.h
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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
  hpa/MCONFIG.in
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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

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

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

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

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

%build

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

Open Source Used In FXOS MIO 2.9.1.157 4298
%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

%cien
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 /tftproot
%{_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 /tftproot 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 tftp.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):
- /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp.spec.in

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   */opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/main.c
   */opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/tftp.c

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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/recvfrom.h

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* @version 3.0 (December 2000)
* Optimised ANSI C code for the Rijndael cipher (now AES)
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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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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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Sockets
-------

The `socket` module uses the functions, `func:` getaddrinfo`, and `func:` getnameinfo`, which are coded in separate source files from the WIDE
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-----------------

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- Use binascii module to do the actual line-by-line conversion
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---------

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Original location:
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Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------------

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1.341 libssh 0.18

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1.342 ntp 4.2.8p13

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

long-opts;
config-header = config.h;
environrc;
version = eval VERSION=`\sed -e '/^\s*/\]*/.*\[\]*/\d*\]*/' -e 's/\]*/\"/ < ../sntp/m4/version.m4`
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid echo $VERSION;

version-value = "\/

*/
*/

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

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1.343 gsoap 2.7

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1.348 zlib 1.2.3
1.348.1 Available under license:

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

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1.349 linux-kernel 3.14.39

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1.350 icu 53
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
## End BSD-specific setup

1.351 smartmontools 7.0
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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.
* October 5, 1997 - 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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for CyberLogin for Linux which allows logging onto EON
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procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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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;
}
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;
}

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

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

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

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

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

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

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

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

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

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

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

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

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

    if (sub) {
        /* Subtraction, carry is really borrow. */
        while (count--) {
            *accp -= *valp-- + carry;
            if (*accp < 0) {
                carry = 1;
                *accp-- += BASE;
            } else {
                carry = 0;
            }
        }
        accp--;
    }
    else {
        carry = 0;
        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
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```c
|| 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);
bcout_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bcout_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);
broadcast_num (&u0);
broadcast_num (&v1);
broadcast_num (&m1);
broadcast_num (&v0);
broadcast_num (&m2);
broadcast_num (&m3);
broadcast_num (&d1);
broadcast_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;
b_c_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;
um2 = (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 (qval);
*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); /*truncation */
}

/* 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);
/* 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);
broadcast (&frac_part);
broadcast (&base);
broadcast (&cur_dig);
broadcast (&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)
/* 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, strsclae);

/* 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 (strsclae > 0)
    {
        ptr++; /* skip the decimal point! */
        for (; strsclae > 0; strsclae--)
            *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);
/* 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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work 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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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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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
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If distribution of object code is made by offering access to copy
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libfreedreno_layout = static_library(
    'freedreno_layout',
    [ 'fd5_layout.c',
      'fd6_layout.c',
      'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc/include, inc/src, inc/mapi, inc/mesa, inc/gallium, inc/gallium_aux],
    c_args : [no_override_init_args],
    gnu_symbol_visibility : 'hidden',
    dependencies : idep_nir_headers,
    build_by_default : false,
)

foreach major : ['5', '6']
    test(
        'fd' + major + '_layout',
        executable(
            'fd' + major + '_layout',
            [ 'fd_layout_test.c',
              'fd' + major + '_layout_test.c',
              freedreno_xml_header_files,
            ],
            link_with: libfreedreno_layout,
            dependencies : idep_mesautil,
            include_directories: [ inc/include,
                                    inc/src,
                                    inc/mapi,
                                    inc/mesa,
                                    inc/gallium,
                                    inc/gallium_aux,
                                    inc_freedreno],
            suite : ['freedreno'],
        )
    endfor
test(
    )
endforeach
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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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** NOTE! The following LGPL license applies to the tdb
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

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

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs". This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of: tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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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) $(LDLFLAGS_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-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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

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Gadi Oxman, August 1995

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1.366 libevent 2.0.21

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1.367 libassuan 2.1.2

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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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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
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Keith Packard wrote the pcf driver found in XFree86. His work is at the same time the specification and the sample implementation of the
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*
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For the server\util_md5.c component:

/****************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*/
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For the `src\lib\apr-util\xml\expat\conf\tools\install-sh` component:

```bash
# 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:

```c
/*                          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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<!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>
<!--
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X
This file is generated from xml source: DO NOT EDIT
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-->
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<link rel="stylesheet" type="text/css" href="../style/css/prettify.css" />
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  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread">');
    var s = d.createElement('script');
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                 ===============

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

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

*/

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notice like this when it starts in an interactive mode:

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

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- e) Convey the object code using peer-to-peer transmission, provided
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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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1.395 nspr 4.13.1 1.0.el7_3

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1.400 libgpg-error 1.12-3.el7

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in
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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.

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

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

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

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

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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
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4. You may copy and distribute the Library (or a portion or
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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
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of
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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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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
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.402 libxml 2.9.1

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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.
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.
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.

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:

```python
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:

```python
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()`
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 *tenths* 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-rl263"` 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 "1.9adev" instead, as in "1.9a.dev", or separate the prerelease tags with a number, as in "1.9a0dev", "1.9a.dev", and even "1.9a.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:

```python
>>> from pkg_resources import parse_version
>>> parse_version('1.9a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9.dev-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.
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. Setup tools 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.*", "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(
        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'.

"Eggexecutable" 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:

```python
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:

```python
setup(  
    ...
    dependency_links = [  
        "http://peak.telecommunity.com/snapshots/",
    ],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setup tools allows
you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support:

```python
def 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:

```python
def 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:

```python
def 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::

```python
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.::

```python
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.::

```python
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::

```ini
setup.py
src/
    mypkg/
        __init__.py
        mypkg.txt
    data/
        somefile.dat
        otherdata.dat
```

The setuptools setup file might look like this::

```python
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:

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```python
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 the `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::

```python
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::
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 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 a `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:

```
[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.:

```
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::

```bash
setup.py alias --global-config daily egg_info --tag-svn-revision\n   --tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.::

```bash
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::

```bash
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.::

```bash
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.
``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 `--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 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*.  

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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' `saveopts` 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:

```python
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:

```python
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 `--user-config` or `--filename`.

```
--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 `--global-config` or `--filename`.

```
--filename=FILENAME, -f FILENAME```
Save settings to the specified configuration file to use. You can't combine this option with `--global-config` or `--user-config`. 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):

```bash
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):

```bash
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 unit test 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.:

```python
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>`_.

Open Source Used In FXOS MIO 2.9.1.157 5263
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:
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```
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.:

```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:

```python
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:

```python
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::

```python
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::

```python
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::

```python
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:
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:

```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:

```python
element_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``
------------

``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/

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1.410 gnutls 3.3.5

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========

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1.411 i2c-tools 3.1

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@17linuxb.ists.pwr.wroc.pl>,
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1.416 openssl 1.0.2l

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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 piostream 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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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2. You may modify your copy or copies of the Library or any portion
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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.
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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.

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

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

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

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

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

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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
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That's all there is to it!

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**1.424 pinentry 0.8.4**

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   b) You must cause any work that you distribute or publish, that in
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1.425 procps 3.3.10-5.el7_2

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
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From strings/apr_strnatcmp.c, include/apr_strings.h:

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

* 
* cvt - IEEE floating point formatting routines.
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* 

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1.433 coreutils 8.22 15.el7_2.1

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```c
printf("%s", png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
June 26, 2010
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1.437 webencodings 0.5.1

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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from setuptools import setup, find_packages
import io
from os import path
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(path.join(path.dirname(__file__), 'webencodings', '__init__.py'), encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(path.join(path.dirname(__file__), 'README.rst'), encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
)
Found in path(s):
  */opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1.tar.gz/webencodings-0.5.1/setup.py

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===

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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===

import json
try:
  from urllib import urlopen
except ImportError:
  from urllib.request import urlopen


def assert_lower(string):
  assert string == string.lower()
  return string
def generate(url):
    parts = [
        webencodings.labels
    ]

    Map encoding labels to their name.

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    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
        "]
    }

    labels = 
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
    * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar-gz/webencodings-0.5.1/PKG-INFO
python-webencodings

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
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* Python 2.6+ and 3.3+

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1.438 pam 1.1.8 18.el7

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1.444 curl 7.28.1
1.444.1 Available under license :
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==============
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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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1.446 bzip2 1.0.6 13.el7

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

1.447 libpcap 1.7.3

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1.448 Ishw B.02.17 12.el7

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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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1.450 tftp-hpa 5.2

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

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>
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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

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

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

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

1.462 tiny-xml 0.9.5-5.3.el6
1.462.1 Available under license:

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

/*
 www.sourceforge.net/projects/tinyxml

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*/

Found in path(s):
* /opt/cola/permits/1152279922_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinystr.h
* /opt/cola/permits/1152279922_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinystr.cpp
No license file was found, but licenses were detected in source scan.
/*
 www.sourceforge.net/projects/tinyxml
 Original code by Lee Thomason (www.grinninglizard.com)

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 */

Found in path(s):
* /opt/cola/permits/1152279922_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxml.h
* /opt/cola/permits/1152279922_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxml.cpp
No license file was found, but licenses were detected in source scan.

/ *
 www.sourceforge.net/projects/tinyxml
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Found in path(s):
* /opt/cola/permits/1152279922_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxmlerror.cpp
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Found in path(s):
* /opt/cola/permits/1152279922_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/docs/index.html
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/*
www.sourceforge.net/projects/tinyxml
Original code by Lee Thomason (www.grinninglizard.com)

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TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

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.

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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.)

<ul>
<li> <b>TinyXPath</b> (http://tinyxpath.sourceforge.net). TinyXPath is a small footprint XPath syntax decoder, written in C++.</li>
<li> <b>TinyXML++</b> (http://code.google.com/p/ticpp/). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.</li>
</ul>

<h2> Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the std::string class, and fully supports std::istream, std::ostream, operator<<, and operator>>. Many API methods have both 'const char*' and 'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the 'const char*' form for input.

Use the compile time #define:
TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler, or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment variable TINYXMLUSE_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, it's probably easiest to add the line "#define TIXML_USE_STL" as the first line of tinyxml.h.

<h3>UTF-8</h3>
TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:
<ol>
<li>If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8.</li>
<li>If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8.</li>
<li>If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8.</li>
<li>If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's not clear what that mode does exactly, but old content should keep working.</li>
<li>Until one of the above criteria is met, TinyXML runs in Legacy Mode.</li>
</ol>

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile( TIXML_ENCODING_LEGACY ) or LoadFile( filename, TIXML_ENCODING_LEGACY ). You may force it to use legacy mode all the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.
UTF-8 is not a double byte format - but it is a standard encoding of Unicode! TinyXML does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time. It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding. Text encoded as SHIFT-JIS can not be read by TinyXML. A good text editor can import SHIFT-JIS and then save as UTF-8.

The <a href="http://skew.org/xml/tutorial/">Skew.org link</a> does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that Print() or printf() cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>

TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

@verbatim
&amp;
&amp;lt;
&amp;gt;
&amp;quot;
&amp;apos;
@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 &amp; Away
@endverbatim
will have the Value() of "Far & Away" when queried from the TiXmlText object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point: The syntax "&#xA0;" or "&#160;" are both to the non-breaking space character.

<h3> Printing </h3>
TinyXML can print output in several different ways that all have strengths and limitations.

- Print( FILE* ). Output to a std-C stream, which includes all C files as well as stdout.
- "Pretty prints", but you don't have control over printing options.
- The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
- used by Print() and SaveFile()

- operator<<. Output to a c++ stream.
- Integrates with standard 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:
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 )
{

@verbatim
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:

@endverbatim
TiXmlHandle docHandle( &document );
if ( child2 )
{
// do something useful
@endverbatim

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>
Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can 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 dependencies have been hard coded.

<h3>Windows project file for VC6</h3>
<ul>
  <li>tinyxml: tinyxml library, non-STL</li>
  <li>tinyxmlSTL: tinyxml library, STL</li>
  <li>tinyXmlTest: test app, non-STL</li>
  <li>tinyXmlTestSTL: test app, STL</li>
</ul>

<h3>Makefile</h3>
At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

<h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

<h2>How TinyXML works.</h2>

An example is probably the best way to go. Take:
@verbatim
<?xml version="1.0" standalone="no">
<!-- Our to do list data -->
<ToDo>
<Item priority="1"> Go to the <bold>Toy store!</bold></Item>
<Item priority="2"> Do bills</Item>
</ToDo>
@endverbatim

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:
@verbatim
TiXmlDocument doc( "demo.xml" );
doc.LoadFile();
@endverbatim

And its ready to go. Now lets look at some lines and how they relate to the DOM.

@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.

@endverbatim

A comment. Will become a TiXmlComment object.

@endverbatim

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

@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".

@endverbatim

Go to the

A TiXmlText. This is a leaf node and cannot contain other nodes. It is a child of the "Item" TiXmlElement.

@endverbatim
Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

@verbatim
TiXmlDocument"demo.xml"
TiXmlDeclaration"version='1.0'" "standalone=no"
TiXmlComment"Our to do list data"
TiXmlElement"ToDo"
TiXmlElement"Item" Attributes: priority = 1
TiXmlText"Go to the "
TiXmlElement"bold"
TiXmlText"Toy store!"
TiXmlElement"Item" Attributes: priority=2
TiXmlText"Do bills"
@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

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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: <a href="http://www.w3.org/TR/2004/REC-xml-20040204/">
http://www.w3.org/TR/2004/REC-xml-20040204/</a>

I also recommend "XML Pocket Reference" by Robert Eckstein and published by OReilly...the book that got the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

www.sourceforge.net/projects/tinyxml

Lee Thomason, Yves Berquin, Andrew Ellerton

*/

Found in path(s):
* /opt/cola/permits/1152279922_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/readme.txt

1.463 bash 4.2.37
1.463.1 Available under license:

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Version 1.3, 3 November 2008

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Index: tdbsa/tdb.c

===================================================================
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<signature of Ty Coon>, 1 April 1990
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 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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Gadi Oxman, August 1995

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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 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:

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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,
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entire whole, and thus to each and every part regardless of who wrote
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subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

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

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

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@c  
@c %**start of header
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@setfilename LGPL.info

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with the Library has the freedom and the wherewithal to run that program
using a modified version of the Library.

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``work based on the library'' and a ``work that uses the library''. The
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A ``library'' means a collection of software functions and/or data
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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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.

As an exception to the Sections above, you may also combine or link a
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in the Library will not necessarily be able to recompile the application
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It may happen that this requirement contradicts the license restrictions
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