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**1.292 python3-zipp 0.6.0 r0**

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**1.293 valgrind 3.15.0 r0**

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**1.295 socat 1.7.3.3 r0**

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**1.298 libtasn 4.14 r0**

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**1.299 libnss-nisplus 1.3+gitAUTOINC+c6934373c7 r0**

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**1.307 lighttpd 1.4.54 r0**

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**1.309 coreutils 8.31 r0**

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**1.312 iproute 5.2.0 r0**

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- 1.313.1 Available under license
- 1.314 util-linux 2.34 r0**
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- 1.315 systemd 243.2 r0**
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- 1.316 grpc 1.24.1 r0**
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- 1.317 nghttp2 1.39.2 r0**
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- 1.318 bash-completion 2.9 r0**
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- 1.319 ccid 1.4.30 r0**
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- 1.320 autoconf-archive 2019.01.06 r0**
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- 1.321 dbus-test 1.12.16 r0**
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- 1.322 libcroco 0.6.13 r0**
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- 1.323 python3-greenlet 0.4.15 r0**
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- 1.324 squashfs-tools 4.3+gitrAUTOINC+f95864afe8 r0**
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- 1.325 python-six 1.14.0 r0**
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- 1.326 python-pluggy 0.13.0 r0**
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- 1.327 tar 1.32 r0**
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- 1.328 libxcrypt 4.4.8 r0**
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- 1.329 gnome-desktop-testing 2018.1 r0**
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- 1.330 ipcalc 0.2.3 r0**
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**1.344 audit 2.8.5 r0**

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**1.345 python-cffi 1.12.3 r0**

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**1.346 python3-pyopenssl 19.1.0 r0**

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**1.347 gawk 5.0.1 r0**

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**1.348 pango 1.44.6 r0**

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**1.349 python-cryptography-vectors 2.7 r0**

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**1.350 python3-pytz 2019.2 r0**

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**1.351 psc-lite 1.8.25 r0**

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**1.352 hd-parm 9.58 r0**

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**1.356 iputils s20190709 r0**  
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**1.443 iperf 3.7 r0**  
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**1.450 gflags 2.2.2 r0**

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**1.451 libpng 1.6.37 r0**

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**1.458 dmidecode 3.2 r0**

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**1.463 bison 3.4.1 r0**

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**1.464 libnl3 3.5.0 r0**

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**1.468 boost 1.71.0 r0**

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**1.469 acpid 2.0.32 r0**

- 1.469.1 Available under license
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- 1.471 perl 5.30.1 r0**
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- 1.472 python3-gevent 1.4.0 r0**
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- 1.473 free-type 2.10.1 r0**
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- 1.474 liburcu 0.11.1 r0**
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- 1.475 python-packaging 19.2 r0**
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- 1.476 python-pyasn1 0.4.7 r0**
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- 1.477 python-pathlib2 2.3.4 r0**
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- 1.478 python-wcwidth 0.1.7 r0**
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- 1.479 python 2.7.18 r0**
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- 1.480 python3-cryptography-vectors 2.9 r0**
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- 1.488 bind 9.11.19**
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**1.498 pyformance 0.3.4**

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**1.500 more-itertools 7.2.0**

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**1.501 strict-rfc3339 0.7**

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**1.502 oauthlib 2.0.6**

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**1.503 simplejson 3.16.0**

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**1.504 dnsmasq 2.83**

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**1.505 python3-bcrypt 3.1.4 r0**

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**1.506 bluez 5.50 r0**

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**1.507 python3-lxml 4.4.1 r0**

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**1.513 python3-werkzeug 0.14.1 r0**  
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**1.521 python3-itsdangerous 0.24 r0**  
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**1.522 python 3.7.8 r0**  
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**1.523 sshpass 1.06 r0**  
1.523.1 Available under license  
**1.524 nvme-cli 1.9+gitAUTOINC+977e7d4cf5 r0**  
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**1.525 expat 2.2.8**  
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**1.526 coreutils 8.31**  
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**1.527 curl 7.66.0**  
1.527.1 Available under license

**1.528 fuse 2.9.9**

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**1.529 util-linux 2.34.0**

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**1.530 util-linux 2.34**

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**1.531 libtirpc 1.1.4**

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**1.532 d-bus 1.12.16**

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**1.533 protobuf 3.9.2**

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**1.534 zipp 0.6.0**

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**1.538 gdbm 1.18.1**

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**1.541 netcf 0.2.8+gitAUTOINC+2c5d425585**

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**1.548 futures 2.1.6**

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**1.549 tpm2-tools 5.0 r0**

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**1.550 expect 5.45.4 r0**

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**1.551 linux-kernel v4.4.238 c7e745409884**

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**1.560 rdma-cm 30.2 r0**

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### **1.567 subwrap 0.1.0**

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### **1.570 at 3.1.23**

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### **1.571 python-pip 20.1.1**

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### **1.572 cffi 1.12.3**

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### **1.573 falcon 1.1.0**

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### **1.574 pyudev 0.21.0**

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

## 1.2 csrp 1.0

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## 1.3 libtommath 0.42.0

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-- Tom St Denis

## 1.4 sed 4.2.2

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## 1.6 libtool 2.4.6 r0

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## 1.7 acl 2.2.52 r0

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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Open-vm-tools v10.0.7

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```
>>> base64.c-none
>>> convertutf.c/h from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0
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```
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```

```
base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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```

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>>> convertutf.c/.h from unicode, inc.-none

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>>> icu4c-4.4.1

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## 1.11 netkit-telnet 0.17 r0

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-----  
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---

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.

Version: 1.1.2

Entered-date: 23MAR97

Description: C-functions for parsing command line options, both  
traditional one-character options, and GNU'ish  
--long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>

Alternate-site: [sunsite.unc.edu /pub/Linux/libs  
shhopt-1.1.2.tar.gz](http://sunsite.unc.edu/pub/Linux/libs/shhopt-1.1.2.tar.gz)

Platforms: Requires ANSI C-compiler.

Copying-policy: BeerWare: If you have the time and money, send me a bottle  
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## 1.13 sysfsutils 2.1.0 r5

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# 1.14 netkit-rsh 0.17 r0

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```

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- \*/

Found in path(s):

\* /opt/cola/permits/152586056\_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.c

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp\_wrappers-devel

BuildRoot: %{\_tmppath}/%{name}-root

%description

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

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

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

%prep

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

%build

%configure

make %{?\_smp\_mflags}

%install

rm -rf \${RPM\_BUILD\_ROOT}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_bindir}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_mandir}/man{1,8}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_sbindir}

make INSTALLROOT=\${RPM\_BUILD\_ROOT} \

SBINDIR=\${\_sbindir} MANDIR=\${\_mandir} \

install

install -m755 -d \${RPM\_BUILD\_ROOT}%{\_sysconfdir}/xinetd.d/ \${RPM\_BUILD\_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM\_BUILD\_ROOT}%{\_sysconfdir}/xinetd.d/tftp

%post server

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

%postun server

if [ \$1 = 0 ]; then

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

fi

%clean

rm -rf \${RPM\_BUILD\_ROOT}

%files

%defattr(-,root,root)

%{\_bindir}/tftp

%{\_mandir}/man1/\*

%files server



```
%defattr(-,root,root)
%config(noreplace) % {_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

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

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

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

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

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

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

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

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

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

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

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

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

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

- \* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
  
- \* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)
  
- \* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.
  
- \* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one
  
- \* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x
  
- \* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16
  
- \* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs
  
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page
  
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),
  
- \* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).
  
- \* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
  - %%post is needed by server, not client. Add %%postun for erasure as well.
  
- \* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>

- default to being disabled
  
- \* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.
  
- \* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody
  
- \* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server\_args (#14003).
  - remove -D\_BSD\_SOURCE (#14003).
  
- \* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd
  
- \* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild
  
- \* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.
  
- \* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use \_BSD\_SOURCE for hpa's tftpd so we get BSD signal semantics.
  
- \* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description
  
- \* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).
  
- \* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary
  
- \* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server
  
- \* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.
  
- \* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.
  
- \* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

\* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>

- auto rebuild in the new build environment (release 22)

\* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>

- compile for 6.0.

\* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>

- build root

\* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

\* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

\* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

\* /opt/cola/permits/152586056\_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec

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Found in path(s):

\* /opt/cola/permits/152586056\_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.8.in

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

```
BuildRequires: tcp_wrappers-devel
BuildRoot: % {_tmppath}/% {name}-root
```

```
%description
```

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

```
%package server
```

```
Group: System Environment/Daemons
```

```
Summary: The server for the Trivial File Transfer Protocol (TFTP).
```

```
Requires: xinetd
```

```
%description server
```

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

```
%prep
```

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

```
%build
```

```
%configure
```

```
make % {?_smp_mflags}
```

```
%install
```

```
rm -rf ${RPM_BUILD_ROOT}
```

```
mkdir -p ${RPM_BUILD_ROOT}% {_bindir}
```

```
mkdir -p ${RPM_BUILD_ROOT}% {_mandir}/man{1,8}
```

```
mkdir -p ${RPM_BUILD_ROOT}% {_sbindir}
```

```
make INSTALLROOT=${RPM_BUILD_ROOT} \
```

```
SBINDIR=% {_sbindir} MANDIR=% {_mandir} \
```

```
install
```

```
install -m755 -d ${RPM_BUILD_ROOT}% {_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
```

```
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}% {_sysconfdir}/xinetd.d/tftp
```

```
%post server
```

```
/sbin/service xinetd reload > /dev/null 2>&1 || :
```

```
%postun server
```

```
if [ $1 = 0 ]; then
```

```

/sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

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

%files server
%defattr(-,root,root)
%config(noreplace) % {_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

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

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

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

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

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

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

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

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

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

```

- \* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476
- \* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
- \* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29
- \* Thu May 23 2002 Tim Powers <timp@redhat.com>
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- \* 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.
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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
  - use hpa's tftpd.8 man page instead of the netkits one
- \* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x
- \* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16
- \* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),

- drop dependency on xinetd for tftp client (#25051),
  
- \* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).
  
- \* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
  - %%post is needed by server, not client. Add %%postun for erasure as well.
  
- \* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled
  
- \* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.
  
- \* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody
  
- \* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server\_args (#14003).
  - remove -D\_BSD\_SOURCE (#14003).
  
- \* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd
  
- \* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild
  
- \* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.
  
- \* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use \_BSD\_SOURCE for hpa's tftpd so we get BSD signal semantics.
  
- \* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description
  
- \* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).
  
- \* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary



\* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server

\* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

\* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.15.

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

- tftpd should truncate file when overwriting (#412)

\* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>

- auto rebuild in the new build environment (release 22)

\* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>

- compile for 6.0.

\* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>

- build root

\* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

\* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

\* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

\* /opt/cola/permits/152586056\_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec.in

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

/\* \*- c \*- ----- \*

\*

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\*

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\* <http://www.openbsd.org/>.

\*

\* ----- \*/

Found in path(s):

\* /opt/cola/permits/152586056\_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/config.h

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

```
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*
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*
* 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/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.c
* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.h
```

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Found in path(s):

\* /opt/cola/permits/152586056\_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/extern.h

\* /opt/cola/permits/152586056\_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.h

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

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Found in path(s):

\* /opt/cola/permits/152586056\_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/main.c

\* /opt/cola/permits/152586056\_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-

5.2/common/tftpsubs.c

\* /opt/cola/permits/152586056\_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.c

## 1.16 libusb-compat 0.1.5 r0

### 1.16.1 Available under license :

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Version 2.1, February 1999

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## 1.17 libmodelgbp beryllium-sr1 r0

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Source: <https://wiki.opendaylight.org/view/OpFlex:Main>

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## 1.18 flex 2.6.0 r0

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## 1.23 cpio 2.12 r0

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## 1.25 cracklib 2.9.5 r0

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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.

^L

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

-----

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected

in released code until Nov 2009 - slow release cycle...)

-----

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

[Cracklib-devel] cracklib license

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

Attachments: Message as HTML

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

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

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

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

> From: cracklib-devel-bounces@li...

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

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

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

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

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

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

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

Re: [Cracklib-devel] cracklib license

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

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

-- Nathan  
=20

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

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

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

Re: [Cracklib-devel] cracklib license

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

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

I would like to see it under LGPL as well. I think it is in everyone's

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

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

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

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

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

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

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

>>

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

>>

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

>

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

>

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

>

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

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

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

>

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

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.  
>>  
>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
>> make the change now ?  
>  
> yes. go for it. thanks++

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

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

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

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

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

-----

From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)



Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

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

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

Happy now? :-)

-a

# 1.26 bash 4.2 r6

## 1.26.1 Available under license :

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

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

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

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

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

To: chet@po.cwru.edu  
Subject: Re: ksh scripts  
Message-ID: <9505092233.aa13001@deephought.armory.com>

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

John

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

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

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

Flags: 10

Return-Path: mikel@ora.com

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

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

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

Received: by los.ora.com (4.1/Spike-2.1)

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

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

From: mikel@ora.com (Michael Loukides)

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

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

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

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

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

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

That's great!

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

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## 1.27 setserial 2.17 r3

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Version 2, June 1991

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```

```
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### 1.42.99+1.43+gitAUTOINC+0f26747167 r0

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

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

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Index: `tdbsa/tdb.c`

=====  
--- `tdbsa.orig/tdb.c`

+++ `tdbsa/tdb.c`

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

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

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

- trivial database library - private includes

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

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```
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```

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```
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```

<signature of Ty Coon>, 1 April 1989

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

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

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#

# This is 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)
```

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Theodore Ts'o  
23-June-2007

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

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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It is part of the main e2fsprogs distribution, which can be found at:

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\* imap\_gssapi.c is partially derived from sample code in:  
\* GSS-API Programming Guide  
\* Part No: 816-1331-11  
\* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.

\*

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Network Working Group     H. Krawczyk  
Request for Comments: 2104     IBM  
Category: Informational     M. Bellare  
                              UCSD  
                              R. Canetti  
                              IBM  
                              February 1997

HMAC: Keyed-Hashing for Message Authentication

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Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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## 1.31 libdaemon 0.14 r0

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## 1.37 findutils 4.6.0 r0

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```

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```
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# 1.38 sfdisk 2.25.2 r0

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Copyright (C) <year> <name of author>
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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

Ty Coon, President of Vice

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

Disk <removed>: 10 MiB, 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  
Disklabel type: dos  
Disk identifier: <removed>

-----  
Create 1st primary partition  
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----  
Disk <removed>: 10 MiB, 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  
Disklabel type: dos  
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux

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

---layout-----  
Disk <removed>: 10 MiB, 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  
Disklabel type: dos  
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux
<removed>2		4096	20479	16384	8M	a5	FreeBSD

-----  
Create default BSD  
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----  
Welcome to fdisk <removed>.

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

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors  
Geometry: 255 heads, 63 sectors/track, 1 cylinders  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: BSD  
partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----

b5c121c2091b2ff26b880551feac7112 BSD.img

---layout-----

Welcome to fdisk <removed>.

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

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors  
Geometry: 255 heads, 63 sectors/track, 1 cylinders  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: BSD  
partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
a	4096	6144	2049	1M	4.2BSD	0	0	0
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

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): Entering nested 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			

Command (m for help):

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## 1.40 base-passwd 3.5.29 r0

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

Bruce Perens <bruce@pixar.com>.

Files: doc/\*

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

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

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

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

That's all there is to it!

## 1.43 jemalloc 4.0.4 r0

### 1.43.1 Available under license :

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# 1.44 email 4.0.2 r0

## 1.44.1 Available under license :

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

Metadata-Version: 1.0

Name: email

Version: 4.0.2

Summary: Standalone email package

Home-page: <http://www.python.org/sigs/email-sig>

Author: Email SIG

Author-email: [email-sig@python.org](mailto:email-sig@python.org)

License: Python software Foundation

Description: This is the standalone email package. This is a copy of what's available in Python but you may want to use the standalone version if you want the latest and greatest email package, even in older Pythons.

Keywords: email

Platform: UNKNOWN

Found in path(s):

\* /opt/cola/permits/177695388\_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email.egg-info/PKG-INFO

\* /opt/cola/permits/177695388\_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/PKG-INFO

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

Return-Path: <[barry@python.org](mailto:barry@python.org)>

Delivered-To: [barry@python.org](mailto:barry@python.org)

Received: by mail.python.org (Postfix, from userid 889)  
id C2BF0D37C6; Tue, 11 Sep 2001 00:05:05 -0400 (EDT)

MIME-Version: 1.0

Content-Type: multipart/mixed; boundary="h90VIIIKmx"

Content-Transfer-Encoding: 7bit

Message-ID: <15261.36209.358846.118674@anthem.python.org>

From: [barry@python.org](mailto:barry@python.org) (Barry A. Warsaw)

To: [barry@python.org](mailto:barry@python.org)

Subject: a simple multipart

Date: Tue, 11 Sep 2001 00:05:05 -0400

X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid

X-Attribution: BAW

X-Oblique-Strategy: Make a door into a window

--h90VIIIKmx

Content-Type: text/plain

Content-Disposition: inline;  
filename="msg.txt"

Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90VIIIKmx  
Content-Type: text/plain  
Content-Disposition: inline;  
filename="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90VIIIKmx--

Found in path(s):

\* /opt/cola/permits/177695388\_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg\_04.txt

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

Return-Path: <barry@python.org>  
Delivered-To: barry@python.org  
Received: by mail.python.org (Postfix, from userid 889)  
id C2BF0D37C6; Tue, 11 Sep 2001 00:05:05 -0400 (EDT)  
MIME-Version: 1.0  
Content-Type: multipart/mixed; boundary="h90VIIIKmx"  
Content-Transfer-Encoding: 7bit  
Message-ID: <15261.36209.358846.118674@anthem.python.org>  
From: barry@python.org (Barry A. Warsaw)  
To: barry@python.org  
Subject: a simple multipart  
Date: Tue, 11 Sep 2001 00:05:05 -0400  
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid  
X-Attribution: BAW  
X-Oblique-Strategy: Make a door into a window

--h90VIIIKmx  
Content-Type: text/plain  
Content-Disposition: inline; name="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90VIIIKmx  
Content-Type: text/plain  
Content-Disposition: inline; name="msg.txt"

Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90VIIIKmx--

Found in path(s):

\* /opt/cola/permits/177695388\_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg\_44.txt

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

Return-Path: <barry@python.org>

Delivered-To: barry@python.org

MIME-Version: 1.0

Content-Type: message/rfc822

Content-Description: forwarded message

Content-Transfer-Encoding: 7bit

Message-ID: <15265.9482.641338.555352@python.org>

From: barry@zope.com (Barry A. Warsaw)

Sender: barry@python.org

To: barry@python.org

Subject: forwarded message from Barry A. Warsaw

Date: Thu, 13 Sep 2001 17:28:42 -0400

X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid

X-Attribution: BAW

X-Oblique-Strategy: Be dirty

X-Url: http://barry.wooz.org

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Return-Path: <barry@python.org>

Delivered-To: barry@python.org

Message-ID: <15265.9468.713530.98441@python.org>

From: barry@zope.com (Barry A. Warsaw)

Sender: barry@python.org

To: barry@python.org

Subject: testing

Date: Thu, 13 Sep 2001 17:28:28 -0400

X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid

X-Attribution: BAW

X-Oblique-Strategy: Spectrum analysis

X-Url: http://barry.wooz.org

Found in path(s):

\* /opt/cola/permits/177695388\_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg\_06.txt

# 1.45 python-backports-lzma 0.0.3 r0

## 1.45.1 Available under license :

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

Metadata-Version: 1.1

Name: backports.lzma

Version: 0.0.3

Summary: Backport of Python 3.3's 'lzma' module for XZ/LZMA compressed files.

Home-page: <https://github.com/peterjc/backports.lzma>

Author: Peter Cock, based on work by Nadeem Vawda and Per Oyvind Karlsen

Author-email: [p.j.a.cock@googlemail.com](mailto:p.j.a.cock@googlemail.com)

License: 3-clause BSD License

Description: This is a backport of the 'lzma' module included in Python 3.3 or later

by Nadeem Vawda and Per Oyvind Karlsen, which provides a Python wrapper for XZ Utils (aka LZMA Utils v2) by Igor Pavlov.

In order to compile this, you will need to install XZ Utils from <http://tukaani.org/xz/>

Keywords: xz lzma compression decompression

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Topic :: System :: Archiving :: Compression

Found in path(s):

\* /opt/cola/permits/177697609\_1695328042.9187105/0/python-backports-lzma-0-0-3-r0-tar-bz2/python-backports-lzma-0.0.3-r0/backports.lzma-0.0.3/PKG-INFO

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

license='3-clause BSD License',

'License :: OSI Approved :: BSD License',

Found in path(s):

\* /opt/cola/permits/177697609\_1695328042.9187105/0/python-backports-lzma-0-0-3-r0-tar-bz2/python-backports-lzma-0.0.3-r0/backports.lzma-0.0.3/setup.py

# 1.46 libtool 2.4.6

## 1.46.1 Available under license :

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Version 2, June 1991

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## 1.50 python-pycrypto 2.6.1 r0

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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-----  
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From dlitz@dlitz.net Sun Aug 2 21:48:25 2009

Date: Sun, 2 Aug 2009 21:48:25 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Paul Swartz <paulswartz@gmail.com>

Subject: PyCrypto license clarification

Message-ID: <20090803014825.GA1326@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2631



Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,

- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... \_spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159

Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])

by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066

for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)

Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3

for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:from:date:message-id:subject:to:content-type

:content-transfer-encoding;

bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;

b=gyTqkRhKIHadFKIZCBWsRbnMNVdQ1PWIJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac

Vn55qllqTdom4e9zlUEE6MwZo9kqi/Qw0L/SLib0DIQeNqo/eHYqPmuVswltaYwNAyMJ

Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=

DomainKey-Signature: a=rsa-sha1; c=noFWS;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:from:date:message-id:subject:to

:content-type:content-transfer-encoding;

b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EfT6Nv6

Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPfP8AzPI3CefL

1omJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=

MIME-Version: 1.0

Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,  
03 Aug 2009 09:14:03 -0700 (PDT)

In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>

References: <20090803014825.GA1326@rivest.dlitz.net>



AIM: z3penguin

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009  
Date: Mon, 3 Aug 2009 14:35:01 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Paul Swartz <paulswartz@gmail.com>  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>  
References: <20090803014825.GA1326@rivest.dlitz.net>  
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1; format=flowed  
Content-Disposition: inline  
Content-Transfer-Encoding: 8bit  
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:  
>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:

>> Hi Paul,  
>>  
>> I am the new maintainer of the Python Cryptography Toolkit, and I am  
>> working on a new release at <http://www.pycrypto.org/>.  
>  
>That's great!  
>  
>> I understand that you have made contributions to PyCrypto, under nickname  
>> "z3p" and/or other names. May I, on your behalf, dedicate to the public  
>> domain all your contributions to PyCrypto, with the following notice?  
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>> =====  
>> The contents of this file are dedicated to the public domain. To the  
>> extent that dedication to the public domain is not available, everyone  
>> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
>> to exercise all rights associated with the contents of this file for  
>> any purpose whatsoever. No rights are reserved.  
>> =====

>

>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009

Date: Sat, 18 Apr 2009 09:14:20 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Mark Moraes <moraes@computer.org>

Subject: PyCrypto license clarification

Message-ID: <20090418131419.GA14494@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
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warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

([www.amk.ca](http://www.amk.ca))

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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198

Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])

by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE

for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;

bh=OvxqbYnCG7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-

Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3s  
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB  
2aU=

DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;

s=s1024; d=yahoo.com;

h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject-To:MIME-Version:Content-Type;  
b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj7  
63caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j  
eo=;

Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>

X-YMail-OSG:

FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY  
4vZSnfTT8wnCkzZNZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS  
Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X  
onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxw--

Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT

X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1

Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)

From: M Moraes <markmoraes@yahoo.com>

Reply-To: moraes@computer.org

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Status: RO

X-Status: A

Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,

Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenger <dlitz@dlitz.net>

> Subject: PyCrypto license clarification

> To: "Mark Moraes" <moraes@computer.org>

> Date: Saturday, April 18, 2009, 9:14 AM

> Hi Mark,

>

> I am the new maintainer of the Python Cryptography Toolkit,

> and I am

> working on a new release at <http://www.pycrypto.org/>.

>  
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>  
>  
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> suitability for any purpose, express  
>     or implied. Use at your own risk or  
> not at all.  
>  
> =====  
>  
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>

> =====

>

> Regards,  
> - Dwayne  
>  
> -- Dwayne C. Litzenger <dlitz@dlitz.net>  
> Key-signing key - 19E1  
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009  
Date: Mon, 20 Apr 2009 20:01:37 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>  
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/

X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3677

Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

>

>Hi Dwayne.

>

>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

>

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>>

>>

>> =====

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>> no restrictions on further  
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>> imposed by the laws of your  
>> country of residence. This  
>> software is provided "as is" without  
>> warranty of fitness for use or  
>> suitability for any purpose, express  
>> or implied. Use at your own risk or  
>> not at all.  
>>  
>> =====  
>>  
>> Incorporating the code into commercial  
>> products is permitted; you do  
>> not have to make source available or  
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>> rights are reserved.

>>

>> =====

>>

>> Regards,

>> - Dwayne

>>

>> -- Dwayne C. Litzenger <dlitz@dlitz.net>

>> Key-signing key - 19E1

>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>>

>

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <dlitz@dlitz.net>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)

Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)

Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])

by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088

for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)

Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk

[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS

15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;

Thu, 28 Aug 2008 01:45:02 +0100

To: crypt@bis.doc.gov,

enc@nsa.gov,

web\_site@bis.doc.gov,  
pycrypto@lists.dlitz.net,  
PYTHON-CRYPTO@NIC.SURFNET.NL,  
dlitz@dlitz.net

Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailfrom; client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk; helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;  
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100  
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1]) by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1 for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)  
Received: by rivest.dlitz.net (Postfix, from userid 1000) id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)  
Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000); Wed, 27 Aug 2008 20:42:54 -0400  
Date: Wed, 27 Aug 2008 20:42:54 -0400  
Cc: post@stamper.itconsult.co.uk  
Subject: PyCrypto TSU NOTIFICATION  
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/; id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing); preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/; id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008); preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
X-Delivery-Agent: TMDA/1.1.9 (Jura)  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
X-DNSBL: 0  
Status: O  
Content-Length: 2182  
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

#####

#

# This is a proof of posting certificate from  
# stamper.itconsult.co.uk certifying that a user  
# claiming to be:-

# dlitz@dlitz.net  
# requested that this message be sent to:-  
# crypt@bis.doc.gov  
# enc@nsa.gov  
# web\_site@bis.doc.gov  
# pycrypto@lists.dlitz.net  
# PYTHON-CRYPTO@NIC.SURFNET.NL  
# dlitz@dlitz.net  
#  
# This certificate was issued at 00:45 (GMT)  
# on Thursday 28 August 2008 with reference 0520978  
#  
# CAUTION: while the message may well be from the sender  
# indicated in the "From:" header, the sender  
# has NOT been authenticated by this service  
#  
# For information about the Stamper service see  
# <http://www.itconsult.co.uk/stamper.htm>  
#

#####

SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenberger  
SUBMITTED FOR: Dwayne C. Litzenberger  
POINT OF CONTACT: Dwayne C. Litzenberger  
PHONE and/or FAX: +1-613-693-1296  
MANUFACTURER: n/a  
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")  
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr  
d+q0E7eE8VtnvviUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t  
UNjJ/kv8QLz/aa2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq  
sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQIOhJQ6o  
XYhY+HbRjsD741/GSpOt9IIN5In0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/  
W/pqSSIPkwmhbhPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==  
=3oIX

-----END PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hxxx.org>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Cc: Wim Lewis <wiml@hxxx.org>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hxxx.org>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

>

>I am the new maintainer of the Python Cryptography Toolkit, and I am

>working on a new release at <http://www.pycrypto.org/>.

>

>I understand that you have made contributions to PyCrypto. May I, on

>your behalf, dedicate to the public domain all your contributions to

>PyCrypto, with the following notice?

>

> =====

> The contents of this file are dedicated to the public domain. To the  
> extent that dedication to the public domain is not available, everyone  
> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.

> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128  
implementation, which already has a public-domain notice at the top of  
the file. But I am happy to have that, any any other code of mine that  
might have wandered in there under an unclear open sourcish license,  
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnA18UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B  
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA  
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKobx+/5+t1lJtBcZ  
wrPEa9Oui9s=  
=zSY9

-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

- (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or
- (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
- (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
- (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:



The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

==== EOF ====

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008  
Date: Sun, 23 Nov 2008 00:17:22 -0500  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: "A. M. Kuchling" <amk@amk.ca>  
Subject: PyCrypto license clarification  
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: multipart/signed; micalg=pgp-sha1;  
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"  
Content-Disposition: inline  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3461  
Lines: 78

--YiEDa0DAkWCtVeE4  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
Content-Transfer-Encoding: quoted-printable

Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's=20  
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20  
The text in the current LICENSE file (quoted below) is not entirely clear=  
=20  
on the point of whether distributing modified versions is allowed. (It=20  
says "distribute and use", but not "modify".)

=3D=  
=3D=



Content-Type: application/pgp-signature; name="signature.asc"

Content-Description: Digital signature

Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHDBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ  
yloAn33a3ZjkteyJaTbzEqImOEW8JGpf  
=aBEW

-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <amk@amk.ca>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id D632D10111

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)

Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])

by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105

for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000

Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])

(envelope-sender <amk@amk.ca>)

by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP

for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000

Date: Sun, 23 Nov 2008 07:51:34 -0500

From: "A.M. Kuchling" <amk@amk.ca>

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Subject: Re: PyCrypto license clarification

Message-ID: <20081123125134.GA21239@amk.local>

Reply-To: amk@amk.ca

References: <20081123051722.GA29253@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Disposition: inline

In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>

User-Agent: Mutt/1.5.13 (2006-08-11)

Status: RO  
Content-Length: 537  
Lines: 15

> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
> The text in the current LICENSE file (quoted below) is not entirely clear  
> on the point of whether distributing modified versions is allowed. (It  
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable  
> contributions to PyCrypto, with the following notice?

You may.

--amk  
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009  
Date: Sat, 28 Feb 2009 23:24:14 -0500  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Jeethu Rao <jeethurao@gmail.com>  
Subject: PyCrypto license clarification  
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am  
working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's  
GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
The text in the current LICENSE file (quoted below) is not entirely clear  
on the point of whether distributing modified versions is allowed. (It  
says "distribute and use", but not "modify".)

=====  
Distribute and use freely; there are no restrictions on further  
dissemination and usage except those imposed by the laws of your  
country of residence. This software is provided "as is" without  
warranty of fitness for use or suitability for any purpose, express  
or implied. Use at your own risk or not at all.

=====  
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====  
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.  
=====

Regards,  
- Dwayne

--

Dwayne C. Litzengerger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <jeethurao@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)

Received: (vmmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... \_spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249

Received: from rv-out-0708.google.com (unknown [209.85.198.249])

by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7

for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)

Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26

for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:date:message-id:subject:from:to:content-type;

bh=YWY9U32WCU/ksRqukHwaOZyJQBU4Yvt5mI20U6mI/g=;

b=oMjI22IIxYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY

B5E6VQuGVEyzBbNscytVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas

L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=

DomainKey-Signature: a=rsa-sha1; c=noFWS;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:date:message-id:subject:from:to

:content-type;

b=Ym7CStuDEfJKay1AJyWzkZmJA1lnTcwCG6akBHAXLld8ht6PFcmIsffzZG8hJCIVJ8

vIjqcT+G6cywVTBw1pyGX7ECYzr0+vhGvGdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p

bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=

MIME-Version: 1.0

Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;

Sun, 08 Mar 2009 14:27:54 -0700 (PDT)

In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>

References: <20090301042414.GA15122@rivest.dlitz.net>

Date: Mon, 9 Mar 2009 02:57:54 +0530

Message-ID: <e3c0ddb0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>

Subject: Re: PyCrypto license clarification

From: Jeethu Rao <jeethurao@gmail.com>

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054

Status: RO

Content-Length: 7668

--000e0cd209d0e5a3d40464a23054

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often,  
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzengerger <dlitz@dlitz.net>wrote:

> Hi Jeethu,

>

> I am the new maintainer of the Python Cryptography Toolkit, and I am  
> working on a new release at <http://www.pycrypto.org/>.

>

> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The  
> text in the current LICENSE file (quoted below) is not entirely clear on the  
> point of whether distributing modified versions is allowed. (It says  
> "distribute and use", but not "modify".)

>

> =====

> Distribute and use freely; there are no restrictions on further  
> dissemination and usage except those imposed by the laws of your  
> country of residence. This software is provided "as is" without  
> warranty of fitness for use or suitability for any purpose, express  
> or implied. Use at your own risk or not at all.

> =====

>

> Incorporating the code into commercial products is permitted; you do  
> not have to make source available or contribute your changes back  
> (though that would be nice).

>

> --amk (www.amk.ca)

>

> For the next PyCrypto release, I would like to take steps to move toward a  
> clearer licensing regime. I am asking as many copyright holders as I can  
> find if I can release PyCrypto under something clearer and more standard.  
> Below, I have quoted a public domain dedication that was recommended in  
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> Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey  
> Pointer, and Wim Lewis, and they have all approved the following text for  
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>

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>

> =====

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> extent that dedication to the public domain is not available, everyone  
> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
> to exercise all rights associated with the contents of this file for

> any purpose whatsoever. No rights are reserved.

> =====

>

> Regards,

> - Dwayne

>

> --

> Dwayne C. Litzengerger <dlitz@dlitz.net>

> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>

--

Jeethu Rao

--000e0cd209d0e5a3d40464a23054

Content-Type: text/html; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I'd be fine with the public domain license for PyCrypto. Jeethu Rao PS: Apologies for the delay in my response.

I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethu.com On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzengerger <dlitz@dlitz.net> wrote:

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

Distribute and use freely; there are no restrictions on further



dissemination and usage except those imposed by the laws of your  
country of residence. =A0This software is provided "as is" withou=  
t<br>

warranty of fitness for use or suitability for any purpose, express<br>  
or implied. Use at your own risk or not at all.<br>

=3D=  
=3D=  
=3D<br>

<br>  
Incorporating the code into commercial products is permitted; you do<br>  
not have to make source available or contribute your changes back<br>  
(though that would be nice).<br>

<br>  
--amk =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =  
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 (<a href=3D"http://www.amk.ca" target=3D=  
"\_blank">www.amk.ca</a>)<br>

<br>  
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clearer licensing regime. =A0I am asking as many copyright holders as I can=  
find if I can release PyCrypto under something clearer and more standard. =  
=A0Below, I have quoted a public domain dedication that was recommended in =  
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ter, and Wim Lewis, and they have all approved the following text for their=  
contributions.<br>

<br>  
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with the following notice?<br>

<br>  
=3D=  
=3D=  
=3D<br>

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extent that dedication to the public domain is not available, everyone<br>  
is granted a worldwide, perpetual, royalty-free, non-exclusive license<br>  
to exercise all rights associated with the contents of this file for<br>  
any purpose whatsoever. =A0No rights are reserved.<br>

=3D=  
=3D=  
=3D<br>

<br>  
Regards,<br>  
- Dwayne<br><font color=3D"#888888">

<br>  
-- <br>  
Dwayne C. Litzberger <<a href=3D"mailto:dilitz@dilitz.net" target=3D"\_bl=

ank">dlitz@dlitz.net</a><br>  
=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A04A24 928C EC1=  
3 39C2 5CF7<br>  
</font></blockquote></div><br><br clear=3D"all"><br>-- <br>Jeethu Rao<br>  
</div></div>

--000e0cd209d0e5a3d40464a23054--

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see [LEGAL/copy/LICENSE.orig](#)).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To

the extent that dedication to the public domain is not available,  
everyone is granted a worldwide, perpetual, royalty-free,  
non-exclusive license to exercise all rights associated with the  
contents of this file for any purpose whatsoever.  
No rights are reserved.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS  
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN  
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN  
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE  
SOFTWARE.

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and  
are therefore Copyright (c) 2001, 2002, 2003 Python Software  
Foundation (All Rights Reserved). They are licensed by the PSF  
under the terms of the Python 2.2 license. (See the file  
LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or  
source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification

Message-ID: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am  
working on a new release at <http://www.pycrypto.org/>.

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```
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dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--  
Dwayne C. Litzberger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May 5 03:08:32 2009  
X-Maildir-Dup-Checked: Yes  
Return-Path: <joris@bontje.nl>

X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078  
for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583  
for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)  
Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;  
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97  
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])  
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C  
for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)  
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000  
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])  
(envelope-sender <joris@bontje.nl>)  
by 10.170.1.96 (qmail-ldap-1.03) with SMTP  
for <>; 5 May 2009 07:08:25 -0000  
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)  
id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)  
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl  
[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;  
Tue, 05 May 2009 09:08:25 +0200  
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
Date: Tue, 05 May 2009 09:08:25 +0200  
From: joris@bontje.nl  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
References: <20090505024914.GA9219@rivest.dlitz.net>  
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset=ISO-8859-1;  
format="flowed"  
Content-Disposition: inline  
Content-Transfer-Encoding: 7bit  
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)  
Status: RO  
X-Status: A  
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed

libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.  
=====

Regards,  
Joris

Citeren "Dwayne C. Litzenger" <dlitz@dlitz.net>:

> Hi Joris,  
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> People often ask me what license PyCrypto is covered by, if it's  
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> =====  
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> =====  
>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzenger <dlitz@dlitz.net>  
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009  
Date: Tue, 5 May 2009 17:53:47 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: joris@bontje.nl  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>  
References: <20090505024914.GA9219@rivest.dlitz.net>  
<20090505090825.gsqlips7hg08wwwok@www.webmail.vuurwerk.nl>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <20090505090825.gsqlips7hg08wwwok@www.webmail.vuurwerk.nl>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,

>

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> effort to keep this going.

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>> =====  
>>  
>> Regards,  
>> - Dwayne  
>>  
>> --  
>> Dwayne C. Litzenger <dlitz@dlitz.net>  
>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>  
>  
  
--  
Dwayne C. Litzenger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45  
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009  
Date: Sat, 28 Feb 2009 21:45:09 -0500  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Barry A Warsaw <barry@python.org>  
Subject: PyCrypto license clarification  
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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or implied. Use at your own risk or not at all.
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=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <barry@python.org>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)

Received: (vmmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230

Received: from mail.wooz.org (216-15-33-230.c3-0.slv-ubr2.lnh-slv.md.static.cable.rcn.com [216.15.33.230])

by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073

for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)

Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])

by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F

for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)

Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>

From: Barry Warsaw <barry@python.org>

To: Dwayne C. Litzenger <dlitz@dlitz.net>

In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>

Content-Type: text/plain; charset=US-ASCII; format=flowed; delpsp=yes

Content-Transfer-Encoding: quoted-printable

Mime-Version: 1.0 (Apple Message framework v930.3)

Subject: Re: PyCrypto license clarification

Date: Mon, 2 Mar 2009 11:29:34 -0500

References: <20090301024509.GA13195@rivest.dlitz.net>

X-Pgp-Agent: GPGMail d55 (v55, Leopard)

X-Mailer: Apple Mail (2.930.3)

Status: RO

Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=  
> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20  
> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,  
Barry

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk  
evkJnSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9IIet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GEXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7  
SK4w9VBJfY=3D  
=3DQduY

-----END PGP SIGNATURE-----

Date: Mon, 16 Feb 2009 12:58:00 -0800

From: Robey Pointer <[robey@lag.net](mailto:robey@lag.net)>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <[dlitz@dlitz.net](mailto:dlitz@dlitz.net)>

Received-SPF: pass (goedel.dlitz.net: domain of [robey@lag.net](mailto:robey@lag.net) designates 69.61.78.186 as permitted sender)

Message-Id: <[F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net](mailto:F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net)>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenger wrote:

> For the next PyCrypto release, I would like to take steps to move  
> toward a clearer licensing regime. I am asking as many copyright  
> holders as I can find if I can release PyCrypto under something  
> clearer and more standard. Below, I have quoted a public domain  
> dedication that was recommended in Intellectual Property and Open  
> Source: A Practical Guide to Protecting Code, by Van Lindberg. I  
> have already contacted A. M. Kuchling, and he has approved the  
> following dedication for his contributions.

>  
> May I, on your behalf, dedicate to the public domain all your  
> contributions to PyCrypto, with the following notice?  
>  
>  
> =  
> =====  
> The contents of this file are dedicated to the public domain. To  
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> =  
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>

In case I haven't replied to this yet: Yes, this is fine with me.

robey

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Version: GnuPG v1.4.8 (Darwin)

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SH8AoLJgaq1lIi7/ZYDc+/Cd8VO0xLbr

=Mv6g

-----END PGP SIGNATURE-----

00INDEX This file

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stmts/ Statements by contributors

## 1.51 zlib 1.2.3

### 1.51.1 Available under license :

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

version 1.2.11, January 15th, 2017

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Jean-loup Gailly      Mark Adler  
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\*/

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## 1.52 go-context git r0

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## 1.54 golang git r0

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## 1.55 golang 1.10.3 r0

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# Please keep the list sorted.

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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.

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

For an executable, the required form of the "work that uses the



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That's all there is to it!

## 1.62 gzip 1.10

### 1.62.1 Available under license :

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Version 3, 29 June 2007

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## 1.68 checkpolicy 2.8 r0

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## 1.70 dosfs-tools 4.1 r0

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```
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```
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```

```
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## 1.72 fribidi 1.0.5 r0

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## 1.73 gettext 0.19.8.1 r0

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```
/* Written by David MacKenzie <djm@gnu.ai.mit.edu> and Paul Eggert */
```

## 1.74 gmp 6.1.2 r0

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## 1.75 gpt-fdisk 1.0.4 r0

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## 1.77 intltool 0.51.0 r0

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

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

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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# 1.82 libcheck 0.12.0 r0

## 1.82.1 Available under license :

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Version 2.1, February 1999

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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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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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# 1.84 libhugetlbfs 2.21 r0

## 1.85 libidn 1.35 r0

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@smallexample

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```
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```

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## 1.91 libusb 1.0.22 r0

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## 1.92 libxml-parser-perl 2.44 r0

## 1.93 Izo 2.10 r0

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/\* compr1c.h --

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Markus F.X.J. Oberhumer  
<markus@oberhumer.com>  
<http://www.oberhumer.com/opensource/lzo/>  
\*/

```
#define LZO_NEED_DICT_H 1
#include "config1c.h"
```

```
#if !defined(COMPRESS_ID)
#define COMPRESS_ID LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif
```

```
#include "lzo1b_c.ch"
```

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

```
#define LZO_COMPRESS \
LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,_compress)
```

```
#define LZO_COMPRESS_FUNC \
LZO_PP_ECONCAT3(_lzo1c_,COMPRESS_ID,_compress_func)
```

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

```

const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
               lzo_bytep out, lzo_uintp out_len,
               lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/* vim:set ts=4 sw=4 et: */

```

## 1.94 m4 1.4.18 r0

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Version 3, 29 June 2007

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/\* GNU m4 -- A simple macro processor

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\*/

```

#include "m4.h"

#include <getopt.h>
#include <limits.h>
#include <signal.h>

#include "c-stack.h"
#include "ignore-value.h"
#include "progname.h"
#include "version-etc.h"

#ifdef DEBUG_STKOVF
# include "assert.h"
#endif

#define AUTHORS "Rene' Seindal"

static void usage (int) M4_GNUC_NORETURN;

/* Enable sync output for /lib/cpp (-s). */
int sync_output = 0;

/* Debug (-d[flags]). */
int debug_level = 0;

/* Hash table size (should be a prime) (-Hsize). */
size_t hash_table_size = HASHMAX;

/* Disable GNU extensions (-G). */
int no_gnu_extensions = 0;

/* Prefix all builtin functions by `m4_'. */
int prefix_all_builtins = 0;

/* Max length of arguments in trace output (-lsize). */
int max_debug_argument_length = 0;

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;

/* Artificial limit for expansion_level in macro.c. */

```

```

int nesting_limit = 1024;

#ifdef ENABLE_CHANGEWORD
/* User provided regexp for describing m4 words. */
const char *user_word_regexp = "";
#endif

/* Global catchall for any errors that should affect final error status, but
   where we try to continue execution in the meantime. */
int retcode;

struct macro_definition
{
    struct macro_definition *next;
    int code; /* D, U, s, t, '1', or DEBUGFILE_OPTION. */
    const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

/*-----
| Wrapper around error. |
`-----*/

void
m4_error (int status, int errnum, const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, current_line ? current_file : NULL,
                   current_line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

/*-----
| Wrapper around error_at_line. |
`-----*/

void
m4_error_at_line (int status, int errnum, const char *file, int line,
                 const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, line ? file : NULL, line, format, args);
}

```

```

if (fatal_warnings && ! retcode)
    retcode = EXIT_FAILURE;
va_end (args);
}

#ifndef SIGBUS
# define SIGBUS SIGILL
#endif

#ifndef NSIG
# ifndef MAX
# define MAX(a,b) ((a) < (b) ? (b) : (a))
# endif
# define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE, \
                MAX (SIGSEGV, SIGBUS)))) + 1)
#endif

/* Pre-translated messages for program errors. Do not translate in
   the signal handler, since gettext and strsignal are not
   async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];

/* Print a nicer message about any programmer errors, then exit. This
   must be aysnc-signal safe, since it is executed as a signal
   handler. If SIGNO is zero, this represents a stack overflow; in
   that case, we return to allow c_stack_action to handle things. */
static void M4_GNUC_PURE
fault_handler (int signo)
{
    if (signo)
    {
        /* POSIX states that reading static memory is, in general, not
           async-safe. However, the static variables that we read are
           never modified once this handler is installed, so this
           particular usage is safe. And it seems an oversight that
           POSIX claims strlen is not async-safe. Ignore write
           failures, since we will exit with non-zero status anyway. */
#define WRITE(f, b, l) ignore_value (write (f, b, l))
        WRITE (STDERR_FILENO, program_name, strlen (program_name));
        WRITE (STDERR_FILENO, ": ", 2);
        WRITE (STDERR_FILENO, program_error_message,
              strlen (program_error_message));
        if (signal_message[signo])
        {
            WRITE (STDERR_FILENO, ": ", 2);
            WRITE (STDERR_FILENO, signal_message[signo],
                  strlen (signal_message[signo]));

```

```

    }
    WRITE (STDERR_FILENO, "\n", 1);
#undef WRITE
    _exit (EXIT_INTERNAL_ERROR);
}
}

/*-----
| Print a usage message and exit with STATUS. |
`-----*/

static void
usage (int status)
{
if (status != EXIT_SUCCESS)
    fprintf (stderr, "Try `%s --help' for more information.\n", program_name);
else
    {
    fprintf ("Usage: %s [OPTION]... [FILE]...\n", program_name);
    fputs ("\n\nProcess macros in FILEs.  If no FILE or if FILE is `-', standard input\n\nis read.\n\n", stdout);
    fputs ("\n\nMandatory or optional arguments to long options are mandatory or optional\n\nfor short options too.\n\n\n\nOperation modes:\n\n\n--help          display this help and exit\n\n--version       output version information and exit\n\n", stdout);
    fprintf ("\n\n-E, --fatal-warnings    once: warnings become errors, twice: stop\n\n                        execution at first error\n\n\n-i, --interactive      unbuffer output, ignore interrupts\n\n-P, --prefix-builtins  force a `m4_' prefix to all builtins\n\n-Q, --quiet, --silent  suppress some warnings for builtins\n\n--warn-macro-sequence[=REGEXP]\n\n                        warn if macro definition matches REGEXP,\n\n                        default %s\n\n", DEFAULT_MACRO_SEQUENCE);
#ifdef ENABLE_CHANGEWORD
    fputs ("\n\n-W, --word-regexp=REGEXP  use REGEXP for macro name syntax\n\n", stdout);
#endif
}
}

```

```

    fputs ("\n\
\n\
Preprocessor features:\n\
-D, --define=NAME[=VALUE]  define NAME as having VALUE, or empty\n\
-I, --include=DIRECTORY    append DIRECTORY to include path\n\
-s, --synclines            generate `#line NUM \"FILE\" lines\n\
-U, --undefine=NAME        undefine NAME\n\
", stdout);
    puts ("");
    xprintf (_("\n\
Limits control:\n\
-g, --gnu                  override -G to re-enable GNU extensions\n\
-G, --traditional         suppress all GNU extensions\n\
-H, --hashsize=PRIME      set symbol lookup hash table size [509]\n\
-L, --nesting-limit=NUMBER change nesting limit, 0 for unlimited [%d]\n\
"), nesting_limit);
    puts ("");
    fputs ("\n\
Frozen state files:\n\
-F, --freeze-state=FILE    produce a frozen state on FILE at end\n\
-R, --reload-state=FILE    reload a frozen state from FILE at start\n\
", stdout);
    fputs ("\n\
\n\
Debugging:\n\
-d, --debug[=FLAGS]        set debug level (no FLAGS implies `aeq')\n\
    --debugfile[=FILE]      redirect debug and trace output to FILE\n\
                            (default stderr, discard if empty string)\n\
-l, --arglength=NUM        restrict macro tracing size\n\
-t, --trace=NAME           trace NAME when it is defined\n\
", stdout);
    fputs ("\n\
\n\
FLAGS is any of:\n\
a  show actual arguments\n\
c  show before collect, after collect and after call\n\
e  show expansion\n\
f  say current input file name\n\
i  show changes in input files\n\
l  say current input line number\n\
p  show results of path searches\n\
q  quote values as necessary, with a or e flag\n\
t  trace for all macro calls, not only traceon'ed\n\
x  add a unique macro call id, useful with c flag\n\
V  shorthand for all of the above flags\n\
", stdout);
    fputs ("\n\
\n\

```

If defined, the environment variable `M4PATH` is a colon-separated list  
of directories included after any specified by `-I`.

```
", stdout);
```

```
    fputs ("\n\n
```

```
Exit status is 0 for success, 1 for failure, 63 for frozen file version  
mismatch, or whatever value was passed to the m4exit macro.
```

```
", stdout);
```

```
    emit_bug_reporting_address ();  
    }  
    exit (status);  
}
```

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

```
| Decode options and launch execution. |
```

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

```
/* For long options that have no equivalent short option, use a  
non-character as a pseudo short option, starting with CHAR_MAX + 1. */
```

```
enum
```

```
{  
    DEBUGFILE_OPTION = CHAR_MAX + 1, /* no short opt */  
    DIVERSIONS_OPTION, /* not quite -N, because of message */  
    WARN_MACRO_SEQUENCE_OPTION, /* no short opt */
```

```
    HELP_OPTION, /* no short opt */  
    VERSION_OPTION /* no short opt */  
};
```

```
static const struct option long_options[] =
```

```
{  
    {"arglength", required_argument, NULL, 'l'},  
    {"debug", optional_argument, NULL, 'd'},  
    {"define", required_argument, NULL, 'D'},  
    {"error-output", required_argument, NULL, 'o'}, /* FIXME: deprecate in 2.0 */  
    {"fatal-warnings", no_argument, NULL, 'E'},  
    {"freeze-state", required_argument, NULL, 'F'},  
    {"gnu", no_argument, NULL, 'g'},  
    {"hashsize", required_argument, NULL, 'H'},  
    {"include", required_argument, NULL, 'I'},  
    {"interactive", no_argument, NULL, 'i'},  
    {"nesting-limit", required_argument, NULL, 'L'},  
    {"prefix-builtins", no_argument, NULL, 'P'},  
    {"quiet", no_argument, NULL, 'Q'},  
    {"reload-state", required_argument, NULL, 'R'},  
    {"silent", no_argument, NULL, 'S'},  
    {"synclines", no_argument, NULL, 's'},  
    {"trace", required_argument, NULL, 't'},
```

```

{"traditional", no_argument, NULL, 'G'},
{"undefine", required_argument, NULL, 'U'},
#ifdef ENABLE_CHANGEWORD
{"word-regexp", required_argument, NULL, 'W'},
#endif

{"debugfile", optional_argument, NULL, DEBUGFILE_OPTION},
{"diversions", required_argument, NULL, DIVERSIONS_OPTION},
{"warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION},

{"help", no_argument, NULL, HELP_OPTION},
{"version", no_argument, NULL, VERSION_OPTION},

{ NULL, 0, NULL, 0 },
};

/* Process a command line file NAME, and return true only if it was
   stdin. */
static void
process_file (const char *name)
{
  if (STREQ (name, "-"))
    {
      /* If stdin is a terminal, we want to allow 'm4 - file -'
         to read input from stdin twice, like GNU cat. Besides,
         there is no point closing stdin before wrapped text, to
         minimize bugs in syscmd called from wrapped text. */
      push_file (stdin, "stdin", false);
    }
  else
    {
      char *full_name;
      FILE *fp = m4_path_search (name, &full_name);
      if (fp == NULL)
        {
          error (0, errno, _("cannot open `%s'"), name);
          /* Set the status to EXIT_FAILURE, even though we
             continue to process files after a missing file. */
          retcode = EXIT_FAILURE;
          return;
        }
      push_file (fp, full_name, true);
      free (full_name);
    }
  expand_input ();
}

/* POSIX requires only -D, -U, and -s; and says that the first two

```



```

must be recognized when interspersed with file names. Traditional
behavior also handles -s between files. Starting OPTSTRING with
 '-' forces getopt_long to hand back file names as arguments to opt
 '\1', rather than reordering the command line. */
#ifdef ENABLE_CHANGEWORD
#define OPTSTRING "-B:D:EF:GH:I:L:N:PQR:S:T:U:W:d::egil:ost:"
#else
#define OPTSTRING "-B:D:EF:GH:I:L:N:PQR:S:T:U:d::egil:ost:"
#endif

int
main (int argc, char *const *argv)
{
    struct sigaction act;
    macro_definition *head;    /* head of deferred argument list */
    macro_definition *tail;
    macro_definition *defn;
    int optchar;              /* option character */

    macro_definition *defines;
    bool interactive = false;
    bool seen_file = false;
    const char *debugfile = NULL;
    const char *frozen_file_to_read = NULL;
    const char *frozen_file_to_write = NULL;
    const char *macro_sequence = "";

    set_program_name (argv[0]);
    retcode = EXIT_SUCCESS;
    atexit (close_stdin);

    include_init ();
    debug_init ();

    /* Stack overflow and program error handling. Ignore failure to
       install a handler, since this is merely for improved output on
       crash, and we should never crash ;). We install SIGBUS and
       SIGSEGV handlers prior to using the c-stack module; depending on
       the platform, c-stack will then override none, SIGSEGV, or both
       handlers. */
    program_error_message
        = xasprintf (_("internal error detected; please report this bug to <%s>"),
                    PACKAGE_BUGREPORT);
    signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));
    signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));
    signal_message[SIGILL] = xstrdup (strsignal (SIGILL));
    signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));
    if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)

```

```

    signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));
sigemptyset (&act.sa_mask);
/* One-shot - if we fault while handling a fault, we want to revert
   to default signal behavior. */
act.sa_flags = SA_NODEFER | SA_RESETHAND;
act.sa_handler = fault_handler;
sigaction (SIGSEGV, &act, NULL);
sigaction (SIGABRT, &act, NULL);
sigaction (SIGILL, &act, NULL);
sigaction (SIGFPE, &act, NULL);
sigaction (SIGBUS, &act, NULL);
if (c_stack_action (fault_handler) == 0)
    nesting_limit = 0;

#ifdef DEBUG_STKOVF
/* Make it easier to test our fault handlers. Exporting M4_CRASH=0
   attempts a SIGSEGV, exporting it as 1 attempts an assertion
   failure with a fallback to abort. */
{
    char *crash = getenv ("M4_CRASH");
    if (crash)
        {
            if (!strtol (crash, NULL, 10))
                ++*(int *) 8;
            assert (false);
            abort ();
        }
}
#endif /* DEBUG_STKOVF */

/* First, we decode the arguments, to size up tables and stuff. */
head = tail = NULL;

while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
                              long_options, NULL)) != -1)
    switch (optchar)
        {
        default:
            usage (EXIT_FAILURE);

        case 'B':
        case 'S':
        case 'T':
            /* Compatibility junk: options that other implementations
               support, but which we ignore as no-ops and don't list in
               --help. */
            error (0, 0, _("warning: `m4 -%c' may be removed in a future release"),
                  optchar);

```

```

break;

case 'N':
case DIVERSIONS_OPTION:
    /* -N became an obsolete no-op in 1.4.x. */
    error (0, 0, _("warning: `m4 %s' is deprecated"),
          optchar == 'N' ? "-N" : "--diversions");
    break;

case 'D':
case 'U':
case 's':
case 't':
case '\1':
case DEBUGFILE_OPTION:
    /* Arguments that cannot be handled until later are accumulated. */

    defn = (macro_definition *) xmalloc (sizeof (macro_definition));
    defn->code = optchar;
    defn->arg = optarg;
    defn->next = NULL;

    if (head == NULL)
        head = defn;
    else
        tail->next = defn;
    tail = defn;

    break;

case 'E':
    if (!fatal_warnings)
        fatal_warnings = true;
    else
        warning_status = EXIT_FAILURE;
    break;

case 'F':
    frozen_file_to_write = optarg;
    break;

case 'G':
    no_gnu_extensions = 1;
    break;

case 'H':
    hash_table_size = strtol (optarg, NULL, 10);
    if (hash_table_size == 0)

```

```

    hash_table_size = HASHMAX;
    break;

case 'I':
    add_include_directory (optarg);
    break;

case 'L':
    nesting_limit = strtol (optarg, NULL, 10);
    break;

case 'P':
    prefix_all_builtins = 1;
    break;

case 'Q':
    suppress_warnings = 1;
    break;

case 'R':
    frozen_file_to_read = optarg;
    break;

#ifdef ENABLE_CHANGEWORD
case 'W':
    user_word_regexp = optarg;
    break;
#endif

case 'd':
    debug_level = debug_decode (optarg);
    if (debug_level < 0)
    {
        error (0, 0, _("bad debug flags: `%s'"), optarg);
        debug_level = 0;
    }
    break;

case 'e':
    error (0, 0, _("warning: `m4 -e' is deprecated, use `-i' instead"));
    /* fall through */
case 'i':
    interactive = true;
    break;

case 'g':
    no_gnu_extensions = 0;
    break;

```

```

case 'l':
    max_debug_argument_length = strtol (optarg, NULL, 10);
    if (max_debug_argument_length <= 0)
        max_debug_argument_length = 0;
    break;

case 'o':
    /* -o/--error-output are deprecated synonyms of --debugfile,
       but don't issue a deprecation warning until autoconf 2.61
       or later is more widely established, as such a warning
       would interfere with all earlier versions of autoconf. */
    /* Don't call debug_set_output here, as it has side effects. */
    debugfile = optarg;
    break;

case WARN_MACRO_SEQUENCE_OPTION:
    /* Don't call set_macro_sequence here, as it can exit.
       --warn-macro-sequence sets optarg to NULL (which uses the
       default regexp); --warn-macro-sequence= sets optarg to ""
       (which disables these warnings). */
    macro_sequence = optarg;
    break;

case VERSION_OPTION:
    version_etc (stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
    exit (EXIT_SUCCESS);
    break;

case HELP_OPTION:
    usage (EXIT_SUCCESS);
    break;
}

```

```

defines = head;

```

```

/* Do the basic initializations. */
if (debugfile && !debug_set_output (debugfile))
    M4ERROR ((warning_status, errno, "cannot set debug file `%s'", debugfile));

```

```

input_init ();
output_init ();
symtab_init ();
set_macro_sequence (macro_sequence);
include_env_init ();

```

```

if (frozen_file_to_read)
    reload_frozen_state (frozen_file_to_read);

```

```

else
    builtin_init ();

/* Interactive mode means unbuffered output, and interrupts ignored. */

if (interactive)
{
    signal (SIGINT, SIG_IGN);
    setbuf (stdout, (char *) NULL);
}

/* Handle deferred command line macro definitions. Must come after
initialization of the symbol table. */

while (defines != NULL)
{
    macro_definition *next;
    symbol *sym;

    switch (defines->code)
    {
        case 'D':
            {
                /* defines->arg is read-only, so we need a copy. */
                char *macro_name = xstrdup (defines->arg);
                char *macro_value = strchr (macro_name, '=');
                if (macro_value)
                    *macro_value++ = '\0';
                define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
                free (macro_name);
            }
            break;

        case 'U':
            lookup_symbol (defines->arg, SYMBOL_DELETE);
            break;

        case 't':
            sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
            SYMBOL_TRACED (sym) = true;
            break;

        case 's':
            sync_output = 1;
            break;

        case '\1':
            seen_file = true;

```

```

    process_file (defines->arg);
    break;

case DEBUGFILE_OPTION:
    if (!debug_set_output (defines->arg))
        M4ERROR ((warning_status, errno, "cannot set debug file `%s",
            debugfile ? debugfile : _("stderr")));
    break;

default:
    M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments"));
    abort ();
}

next = defines->next;
free (defines);
defines = next;
}

/* Handle remaining input files. Each file is pushed on the input,
   and the input read. Wrapup text is handled separately later. */

if (optind == argc && !seen_file)
    process_file ("-");
else
    for (; optind < argc; optind++)
        process_file (argv[optind]);

/* Now handle wrapup text. */

while (pop_wrapup ())
    expand_input ();

/* Change debug stream back to stderr, to force flushing the debug
   stream and detect any errors it might have encountered. The
   three standard streams are closed by close_stdin. */
debug_set_output (NULL);

if (frozen_file_to_write)
    produce_frozen_state (frozen_file_to_write);
else
    {
        make_diversion (0);
        undivert_all ();
    }
output_exit ();
free_macro_sequence ();
exit (retcode);

```

```
}
```

# 1.95 make 4.2.1 r0

## 1.95.1 Available under license :

NOT PROVIDED

/\* Argument parsing and main program of GNU Make.

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```
#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"
```

```
#include <assert.h>
#ifdef _AMIGA
# include <dos/dos.h>
# include <proto/dos.h>
#endif
#ifdef WINDOWS32
# include <windows.h>
# include <io.h>
# include "pathstuff.h"
# include "sub_proc.h"
# include "w32err.h"
#endif
#ifdef __EMX__
# include <sys/types.h>
```



```

#include <sys/wait.h>
#endif
#ifdef HAVE_FCNTL_H
#include <fcntl.h>
#endif

#ifdef _AMIGA
int __stack = 20000; /* Make sure we have 20K of stack space */
#endif
#ifdef VMS
int vms_use_mcr_command = 0;
int vms_always_use_cmd_file = 0;
int vms_gnv_shell = 0;
int vms_legacy_behavior = 0;
int vms_comma_separator = 0;
int vms_unix_simulation = 0;
int vms_report_unix_paths = 0;

/* Evaluates if a VMS environment option is set, only look at first character */
static int
get_vms_env_flag (const char *name, int default_value)
{
char * value;
char x;

value = getenv (name);
if (value == NULL)
return default_value;

x = toupper (value[0]);
switch (x)
{
case 'I':
case 'T':
case 'E':
return 1;
break;
case 'O':
case 'F':
case 'D':
return 0;
}
}
#endif

#ifdef HAVE_WAITPID || defined HAVE_WAIT3
#define HAVE_WAIT_NOHANG
#endif

```

```

#ifndef HAVE_UNISTD_H
int chdir ();
#endif
#ifndef STDC_HEADERS
# ifdef sun          /* Sun has an incorrect decl in a header. */
void exit (int) __attribute__ ((noreturn));
# endif
double atof ();
#endif

static void clean_jobserver (int status);
static void print_data_base (void);
static void print_version (void);
static void decode_switches (int argc, const char **argv, int env);
static void decode_env_switches (const char *envar, unsigned int len);
static struct variable *define_makeflags (int all, int makefile);
static char *quote_for_env (char *out, const char *in);
static void initialize_global_hash_tables (void);

/* The structure that describes an accepted command switch. */

struct command_switch
{
    int c;          /* The switch character. */

    enum          /* Type of the value. */
    {
        flag,      /* Turn int flag on. */
        flag_off,  /* Turn int flag off. */
        string,     /* One string per invocation. */
        strlist,    /* One string per switch. */
        filename,   /* A string containing a file name. */
        positive_int, /* A positive integer. */
        floating,   /* A floating-point number (double). */
        ignore      /* Ignored. */
    } type;

    void *value_ptr; /* Pointer to the value-holding variable. */

    unsigned int env:1; /* Can come from MAKEFLAGS. */
    unsigned int toenv:1; /* Should be put in MAKEFLAGS. */
    unsigned int no_makefile:1; /* Don't propagate when remaking makefiles. */

    const void *noarg_value; /* Pointer to value used if no arg given. */
    const void *default_value; /* Pointer to default value. */

```

```

    const char *long_name;    /* Long option name. */
};

/* True if C is a switch value that corresponds to a short option. */

#define short_option(c) ((c) <= CHAR_MAX)

/* The structure used to hold the list of strings given
   in command switches of a type that takes strlist arguments. */

struct stringlist
{
    const char **list; /* Nil-terminated list of strings. */
    unsigned int idx; /* Index into above. */
    unsigned int max; /* Number of pointers allocated. */
};

/* The recognized command switches. */

/* Nonzero means do extra verification (that may slow things down). */

int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */

int silent_flag;

/* Nonzero means just touch the files
   that would appear to need remaking (-t) */

int touch_flag;

/* Nonzero means just print what commands would need to be executed,
   don't actually execute them (-n). */

int just_print_flag;

/* Print debugging info (--debug). */

static struct stringlist *db_flags = 0;
static int debug_flag = 0;

int db_level = 0;

/* Synchronize output (--output-sync). */

char *output_sync_option = 0;

```

```
#ifdef WINDOWS32
/* Suspend make in main for a short time to allow debugger to attach */

int suspend_flag = 0;
#endif

/* Environment variables override makefile definitions. */

int env_overrides = 0;

/* Nonzero means ignore status codes returned by commands
   executed to remake files. Just treat them all as successful (-i). */

int ignore_errors_flag = 0;

/* Nonzero means don't remake anything, just print the data base
   that results from reading the makefile (-p). */

int print_data_base_flag = 0;

/* Nonzero means don't remake anything; just return a nonzero status
   if the specified targets are not up to date (-q). */

int question_flag = 0;

/* Nonzero means do not use any of the builtin rules (-r) / variables (-R). */

int no_builtin_rules_flag = 0;
int no_builtin_variables_flag = 0;

/* Nonzero means keep going even if remaking some file fails (-k). */

int keep_going_flag;
int default_keep_going_flag = 0;

/* Nonzero means check symlink mtimes. */

int check_symlink_flag = 0;

/* Nonzero means print directory before starting and when done (-w). */

int print_directory_flag = 0;

/* Nonzero means ignore print_directory_flag and never print the directory.
   This is necessary because print_directory_flag is set implicitly. */

int inhibit_print_directory_flag = 0;
```

```

/* Nonzero means print version information. */

int print_version_flag = 0;

/* List of makefiles given with -f switches. */

static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */

#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif

/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;

static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */

static const int inf_jobs = 0;

/* Authorization for the jobserver. */

static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our
children under -O. */

char *sync_mutex = NULL;

/* Maximum load average at which multiple jobs will be run.
Negative values mean unlimited, while zero means limit to
zero load (which could be useful to start infinite jobs remotely
but one at a time locally). */
#ifdef NO_FLOAT
double max_load_average = -1.0;
double default_load_average = -1.0;
#else
int max_load_average = -1;

```

```

int default_load_average = -1;
#endif

/* List of directories given with -C switches. */

static struct stringlist *directories = 0;

/* List of include directories given with -I switches. */

static struct stringlist *include_directories = 0;

/* List of files given with -o switches. */

static struct stringlist *old_files = 0;

/* List of files given with -W switches. */

static struct stringlist *new_files = 0;

/* List of strings to be eval'd. */
static struct stringlist *eval_strings = 0;

/* If nonzero, we should just print usage and exit. */

static int print_usage_flag = 0;

/* If nonzero, we should print a warning message
   for each reference to an undefined variable. */

int warn_undefined_variables_flag;

/* If nonzero, always build all targets, regardless of whether
   they appear out of date or not. */

static int always_make_set = 0;
int always_make_flag = 0;

/* If nonzero, we're in the "try to rebuild makefiles" phase. */

int rebuilding_makefiles = 0;

/* Remember the original value of the SHELL variable, from the environment. */

struct variable shell_var;

/* This character introduces a command: it's the first char on the line. */

char cmd_prefix = '\t';

```

```
/* The usage output. We write it this way to make life easier for the
   translators, especially those trying to translate to right-to-left
   languages like Hebrew. */
```

```
static const char *const usage[] =
{
  N_("Options:\n"),
  N_("\n")
  -b, -m          Ignored for compatibility.\n"),
  N_("\n")
  -B, --always-make  Unconditionally make all targets.\n"),
  N_("\n")
  -C DIRECTORY, --directory=DIRECTORY\n\
          Change to DIRECTORY before doing anything.\n"),
  N_("\n")
  -d          Print lots of debugging information.\n"),
  N_("\n")
  --debug[=FLAGS]  Print various types of debugging information.\n"),
  N_("\n")
  -e, --environment-overrides\n\
          Environment variables override makefiles.\n"),
  N_("\n")
  --eval=STRING  Evaluate STRING as a makefile statement.\n"),
  N_("\n")
  -f FILE, --file=FILE, --makefile=FILE\n\
          Read FILE as a makefile.\n"),
  N_("\n")
  -h, --help      Print this message and exit.\n"),
  N_("\n")
  -i, --ignore-errors  Ignore errors from recipes.\n"),
  N_("\n")
  -I DIRECTORY, --include-dir=DIRECTORY\n\
          Search DIRECTORY for included makefiles.\n"),
  N_("\n")
  -j [N], --jobs[=N]  Allow N jobs at once; infinite jobs with no arg.\n"),
  N_("\n")
  -k, --keep-going  Keep going when some targets can't be made.\n"),
  N_("\n")
  -l [N], --load-average[=N], --max-load[=N]\n\
          Don't start multiple jobs unless load is below N.\n"),
  N_("\n")
  -L, --check-symlink-times  Use the latest mtime between symlinks and target.\n"),
  N_("\n")
  -n, --just-print, --dry-run, --recon\n\
          Don't actually run any recipe; just print them.\n"),
  N_("\n")
}
```

```

-o FILE, --old-file=FILE, --assume-old=FILE\n\
    Consider FILE to be very old and don't remake it.\n"),
    N_("\
-O[TYPE], --output-sync[=TYPE]\n\
    Synchronize output of parallel jobs by TYPE.\n"),
    N_("\
-p, --print-data-base    Print make's internal database.\n"),
    N_("\
-q, --question           Run no recipe; exit status says if up to date.\n"),
    N_("\
-r, --no-builtin-rules   Disable the built-in implicit rules.\n"),
    N_("\
-R, --no-builtin-variables Disable the built-in variable settings.\n"),
    N_("\
-s, --silent, --quiet    Don't echo recipes.\n"),
    N_("\
-S, --no-keep-going, --stop\n\
    Turns off -k.\n"),
    N_("\
-t, --touch              Touch targets instead of remaking them.\n"),
    N_("\
--trace                  Print tracing information.\n"),
    N_("\
-v, --version            Print the version number of make and exit.\n"),
    N_("\
-w, --print-directory    Print the current directory.\n"),
    N_("\
--no-print-directory     Turn off -w, even if it was turned on implicitly.\n"),
    N_("\
-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE\n\
    Consider FILE to be infinitely new.\n"),
    N_("\
--warn-undefined-variables Warn when an undefined variable is referenced.\n"),
    NULL
};

```

/\* The table of command switches.

Order matters here: this is the order MAKEFLAGS will be constructed.

So be sure all simple flags (single char, no argument) come first. \*/

```

static const struct command_switch switches[] =
{
    { 'b', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
    { 'd', flag, &debug_flag, 1, 1, 0, 0, 0, 0 },
#ifdef WINDOWS32
    { 'D', flag, &suspend_flag, 1, 1, 0, 0, 0, "suspend-for-debug" },
#endif
};

```



```

{ 'e', flag, &env_overrides, 1, 1, 0, 0, 0, "environment-overrides" },
{ 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
{ 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, 0, "ignore-errors" },
{ 'k', flag, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag,
  "keep-going" },
{ 'L', flag, &check_symlink_flag, 1, 1, 0, 0, 0, "check-symlink-times" },
{ 'm', ignore, 0, 0, 0, 0, 0, 0 },
{ 'n', flag, &just_print_flag, 1, 1, 1, 0, 0, "just-print" },
{ 'p', flag, &print_data_base_flag, 1, 1, 0, 0, 0, "print-data-base" },
{ 'q', flag, &question_flag, 1, 1, 1, 0, 0, "question" },
{ 'r', flag, &no_builtin_rules_flag, 1, 1, 0, 0, 0, "no-builtin-rules" },
{ 'R', flag, &no_builtin_variables_flag, 1, 1, 0, 0, 0,
  "no-builtin-variables" },
{ 's', flag, &silent_flag, 1, 1, 0, 0, 0, "silent" },
{ 'S', flag_off, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag,
  "no-keep-going" },
{ 't', flag, &touch_flag, 1, 1, 1, 0, 0, "touch" },
{ 'v', flag, &print_version_flag, 1, 1, 0, 0, 0, "version" },
{ 'w', flag, &print_directory_flag, 1, 1, 0, 0, 0, "print-directory" },

/* These options take arguments. */
{ 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
{ 'f', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
{ 'I', filename, &include_directories, 1, 1, 0, 0, 0,
  "include-dir" },
{ 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots,
  "jobs" },
#ifdef NO_FLOAT
{ 'l', floating, &max_load_average, 1, 1, 0, &default_load_average,
  &default_load_average, "load-average" },
#else
{ 'l', positive_int, &max_load_average, 1, 1, 0, &default_load_average,
  &default_load_average, "load-average" },
#endif
{ 'o', filename, &old_files, 0, 0, 0, 0, 0, "old-file" },
{ 'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
{ 'W', filename, &new_files, 0, 0, 0, 0, 0, "what-if" },

/* These are long-style options. */
{ CHAR_MAX+1, strlist, &db_flags, 1, 1, 0, "basic", 0, "debug" },
{ CHAR_MAX+2, string, &jobserver_auth, 1, 1, 0, 0, 0, "jobserver-auth" },
{ CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, 0, "trace" },
{ CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 0,
  "no-print-directory" },
{ CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0, 0,
  "warn-undefined-variables" },
{ CHAR_MAX+6, strlist, &eval_strings, 1, 0, 0, 0, 0, "eval" },
{ CHAR_MAX+7, string, &sync_mutex, 1, 1, 0, 0, 0, "sync-mutex" },

```

```

    { 0, 0, 0, 0, 0, 0, 0, 0, 0 }
};

/* Secondary long names for options. */

static struct option long_option_aliases[] =
{
    { "quiet",      no_argument,      0, 's' },
    { "stop",      no_argument,      0, 'S' },
    { "new-file",  required_argument, 0, 'W' },
    { "assume-new", required_argument, 0, 'W' },
    { "assume-old", required_argument, 0, 'o' },
    { "max-load",  optional_argument, 0, 'l' },
    { "dry-run",  no_argument,      0, 'n' },
    { "recon",    no_argument,      0, 'n' },
    { "makefile", required_argument, 0, 'f' },
};

/* List of goal targets. */

static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line
(or, equivalently, in MAKEFLAGS). */

struct command_variable
{
    struct command_variable *next;
    struct variable *variable;
};

static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifdef WINDOWS32
/* On MS-Windows, we chop off the .exe suffix in 'main', so this
cannot be 'const'. */
char *program;
#else
const char *program;
#endif

/* Our current directory before processing any -C options. */

char *directory_before_chdir;

/* Our current directory after processing all -C options. */

```

```

char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */

unsigned int makelevel;

/* Pointer to the value of the .DEFAULT_GOAL special variable.
The value will be the name of the goal to remake if the command line
does not override it. It can be set by the makefile, or else it's
the first target defined in the makefile whose name does not start
with '!. */

struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT
whose commands are used for any file that has none of its own.
This is zero if the makefiles do not define .DEFAULT. */

struct file *default_file;

/* Nonzero if we have seen the magic '.POSIX' target.
This turns on pedantic compliance with POSIX.2. */

int posix_pedantic;

/* Nonzero if we have seen the '.SECONDEXPANSION' target.
This turns on secondary expansion of prerequisites. */

int second_expansion;

/* Nonzero if we have seen the '.ONESHELL' target.
This causes the entire recipe to be handed to SHELL
as a single string, potentially containing newlines. */

int one_shell;

/* One of OUTPUT_SYNC_* if the "--output-sync" option was given. This
attempts to synchronize the output of parallel jobs such that the results
of each job stay together. */

int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the "--trace" option was given. */

int trace_flag = 0;

/* Nonzero if we have seen the '.NOTPARALLEL' target.
This turns off parallel builds for this invocation of make. */

```

```

int not_parallel;

/* Nonzero if some rule detected clock skew; we keep track so (a) we only
   print one warning about it during the run, and (b) we can print a final
   warning at the end of the run. */

int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#ifdef UCHAR_MAX
# define UCHAR_MAX 255
#endif
unsigned short stopchar_map[UCHAR_MAX + 1] = {0};

/* If output-sync is enabled we'll collect all the output generated due to
   options, while reading makefiles, etc. */

struct output make_sync;

/* Mask of signals that are being caught with fatal_error_signal. */

#ifdef POSIX
sigset_t fatal_signal_set;
#else
# ifdef HAVE_SIGSETMASK
int fatal_signal_mask;
# endif
#endif

#if !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
# if !defined HAVE_SIGACTION
# define bsd_signal signal
# else
typedef RETSIGTYPE (*bsd_signal_ret_t) (int);

static bsd_signal_ret_t
bsd_signal (int sig, bsd_signal_ret_t func)
{
    struct sigaction act, oact;
    act.sa_handler = func;
    act.sa_flags = SA_RESTART;
    sigemptyset (&act.sa_mask);
    sigaddset (&act.sa_mask, sig);
    if (sigaction (sig, &act, &oact) != 0)
        return SIG_ERR;
    return oact.sa_handler;
}

```

```

}
# endif
#endif

static void
initialize_global_hash_tables (void)
{
    init_hash_global_variable_set ();
    strcache_init ();
    init_hash_files ();
    hash_init_directories ();
    hash_init_function_table ();
}

/* This character map locate stop chars when parsing GNU makefiles.
   Each element is true if we should stop parsing on that character. */

static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)'0'] = MAP_NUL;
    stopchar_map[(int) '#'] = MAP_COMMENT;
    stopchar_map[(int) ';'] = MAP_SEMI;
    stopchar_map[(int) '='] = MAP_EQUALS;
    stopchar_map[(int) ':'] = MAP_COLON;
    stopchar_map[(int) '%'] = MAP_PERCENT;
    stopchar_map[(int) '|'] = MAP_PIPE;
    stopchar_map[(int) '.'] = MAP_DOT | MAP_USERFUNC;
    stopchar_map[(int) ','] = MAP_COMMA;
    stopchar_map[(int) '$'] = MAP_VARIABLE;

    stopchar_map[(int) '-'] = MAP_USERFUNC;
    stopchar_map[(int) '_'] = MAP_USERFUNC;

    stopchar_map[(int) ' '] = MAP_BLANK;
    stopchar_map[(int) '\t'] = MAP_BLANK;

    stopchar_map[(int) '/'] = MAP_DIRSEP;
    #if defined(VMS)
    stopchar_map[(int) ':'] |= MAP_DIRSEP;
    stopchar_map[(int) '|'] |= MAP_DIRSEP;
    stopchar_map[(int) '>'] |= MAP_DIRSEP;
    #elif defined(HAVE_DOS_PATHS)
    stopchar_map[(int) '\\'] |= MAP_DIRSEP;
    #endif
}

```

```

for (i = 1; i <= UCHAR_MAX; ++i)
{
    if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))
        /* Don't mark blank characters as newline characters. */
        stopchar_map[i] |= MAP_NEWLINE;
    else if (isalnum (i))
        stopchar_map[i] |= MAP_USERFUNC;
}
}

```

```

static const char *
expand_command_line_file (const char *name)
{
    const char *cp;
    char *expanded = 0;

    if (name[0] == '\0')
        O (fatal, NILF, _("empty string invalid as file name"));

    if (name[0] == '~')
    {
        expanded = tilde_expand (name);
        if (expanded && expanded[0] != '\0')
            name = expanded;
    }

    /* This is also done in parse_file_seq, so this is redundant
       for names read from makefiles. It is here for names passed
       on the command line. */
    while (name[0] == '.' && name[1] == '/')
    {
        name += 2;
        while (name[0] == '/')
            /* Skip following slashes: "./foo" is "foo", not "/foo". */
            ++name;
    }

    if (name[0] == '\0')
    {
        /* Nothing else but one or more "./", maybe plus slashes! */
        name = "./";
    }

    cp = strcache_add (name);

    free (expanded);

    return cp;
}

```

```

}

/* Toggle -d on receipt of SIGUSR1. */

#ifdef SIGUSR1
static RETSIGTYPE
debug_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

static void
decode_debug_flags (void)
{
    const char **pp;

    if (debug_flag)
        db_level = DB_ALL;

    if (db_flags)
        for (pp=db_flags->list; *pp; ++pp)
        {
            const char *p = *pp;

            while (1)
            {
                switch (tolower (p[0]))
                {
                    {
                    case 'a':
                        db_level |= DB_ALL;
                        break;
                    case 'b':
                        db_level |= DB_BASIC;
                        break;
                    case 'i':
                        db_level |= DB_BASIC | DB_IMPLICIT;
                        break;
                    case 'j':
                        db_level |= DB_JOBS;
                        break;
                    case 'm':
                        db_level |= DB_BASIC | DB_MAKEFILES;
                        break;
                    case 'n':
                        db_level = 0;
                        break;
                    case 'v':

```

```

    db_level |= DB_BASIC | DB_VERBOSE;
    break;
default:
    OS (fatal, NILF,
        _("unknown debug level specification '%s'"), p);
}

while (*(++p) != '\0')
    if (*p == ';' || *p == ' ')
        {
            ++p;
            break;
        }

    if (*p == '\0')
        break;
}
}

if (db_level)
    verify_flag = 1;

if (! db_level)
    debug_flag = 0;
}

static void
decode_output_sync_flags (void)
{
#ifdef NO_OUTPUT_SYNC
    output_sync = OUTPUT_SYNC_NONE;
#else
    if (output_sync_option)
        {
            if (streq (output_sync_option, "none"))
                output_sync = OUTPUT_SYNC_NONE;
            else if (streq (output_sync_option, "line"))
                output_sync = OUTPUT_SYNC_LINE;
            else if (streq (output_sync_option, "target"))
                output_sync = OUTPUT_SYNC_TARGET;
            else if (streq (output_sync_option, "recurse"))
                output_sync = OUTPUT_SYNC_RECURSE;
            else
                OS (fatal, NILF,
                    _("unknown output-sync type '%s'"), output_sync_option);
        }
}

if (sync_mutex)

```



```

    RECORD_SYNC_MUTEX (sync_mutex);
#endif
}

#ifdef WINDOWS32

#ifndef NO_OUTPUT_SYNC

/* This is called from start_job_command when it detects that
   output_sync option is in effect. The handle to the synchronization
   mutex is passed, as a string, to sub-makes via the --sync-mutex
   command-line argument. */
void
prepare_mutex_handle_string (sync_handle_t handle)
{
    if (!sync_mutex)
    {
        /* Prepare the mutex handle string for our children. */
        /* 2 hex digits per byte + 2 characters for "0x" + null. */
        sync_mutex = xmalloc ((2 * sizeof (sync_handle_t)) + 2 + 1);
        sprintf (sync_mutex, "0x%Ix", handle);
        define_makeflags (1, 0);
    }
}

#endif /* NO_OUTPUT_SYNC */

/*
 * HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture
 * exception and print it to stderr instead.
 *
 * If ! DB_VERBOSE, just print a simple message and exit.
 * If DB_VERBOSE, print a more verbose message.
 * If compiled for DEBUG, let exception pass through to GUI so that
 * debuggers can attach.
 */
LONG WINAPI
handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
    PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
    LPSTR cmdline = GetCommandLine ();
    LPSTR prg = strtok (cmdline, " ");
    CHAR errmsg[1024];
#ifdef USE_EVENT_LOG
    HANDLE hEventSource;
    LPTSTR lpszStrings[1];
#endif
#endif

```

```

if (! ISDB (DB_VERBOSE))
{
    sprintf (errmsg,
        _("%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)\n"),
        prg, exrec->ExceptionCode, exrec->ExceptionAddress);
    fprintf (stderr, errmsg);
    exit (255);
}

sprintf (errmsg,
    _("\nUnhandled exception filter called from program %s\nExceptionCode = %lx\nExceptionFlags =
%lx\nExceptionAddress = 0x%p\n"),
    prg, exrec->ExceptionCode, exrec->ExceptionFlags,
    exrec->ExceptionAddress);

if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
    && exrec->NumberParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        (exrec->ExceptionInformation[0]
        ? _("Access violation: write operation at address 0x%p\n")
        : _("Access violation: read operation at address 0x%p\n")),
        (PVOID)exrec->ExceptionInformation[1]);

/* turn this on if we want to put stuff in the event log too */
#ifdef USE_EVENT_LOG
hEventSource = RegisterEventSource (NULL, "GNU Make");
lpszStrings[0] = errmsg;

if (hEventSource != NULL)
{
    ReportEvent (hEventSource,      /* handle of event source */
                EVENTLOG_ERROR_TYPE, /* event type */
                0,                  /* event category */
                0,                  /* event ID */
                NULL,               /* current user's SID */
                1,                  /* strings in lpszStrings */
                0,                  /* no bytes of raw data */
                lpszStrings,        /* array of error strings */
                NULL);              /* no raw data */

    (VOID) DeregisterEventSource (hEventSource);
}
#endif

/* Write the error to stderr too */
fprintf (stderr, errmsg);

#ifdef DEBUG

```

```

return EXCEPTION_CONTINUE_SEARCH;
#else
exit (255);
return (255); /* not reached */
#endif
}

/*
 * On WIN32 systems we don't have the luxury of a /bin directory that
 * is mapped globally to every drive mounted to the system. Since make could
 * be invoked from any drive, and we don't want to propagate /bin/sh
 * to every single drive. Allow ourselves a chance to search for
 * a value for default shell here (if the default path does not exist).
 */

int
find_and_set_default_shell (const char *token)
{
int sh_found = 0;
char *atoken = 0;
const char *search_token;
const char *tokend;
PATH_VAR(sh_path);
extern const char *default_shell;

if (!token)
search_token = default_shell;
else
search_token = atoken = xstrdup (token);

/* If the user explicitly requests the DOS cmd shell, obey that request.
   However, make sure that's what they really want by requiring the value
   of SHELL either equal, or have a final path element of, "cmd" or
   "cmd.exe" case-insensitive. */
tokend = search_token + strlen (search_token) - 3;
if (((tokend == search_token
      || (tokend > search_token
          && (tokend[-1] == '/' || tokend[-1] == '\\)))
     && !strcasecmp (tokend, "cmd"))
    || ((tokend - 4 == search_token
        || (tokend - 4 > search_token
            && (tokend[-5] == '/' || tokend[-5] == '\\)))
        && !strcasecmp (tokend - 4, "cmd.exe")))
{
batch_mode_shell = 1;
unixy_shell = 0;
sprintf (sh_path, "%s", search_token);
default_shell = xstrdup (w32ify (sh_path, 0));
}

```

```

DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
    default_shell));
sh_found = 1;
}
else if (!no_default_sh_exe
    && (token == NULL || !strcmp (search_token, default_shell)))
{
    /* no new information, path already set or known */
    sh_found = 1;
}
else if (_access (search_token, 0) == 0)
{
    /* search token path was found */
    sprintf (sh_path, "%s", search_token);
    default_shell = xstrdup (w32ify (sh_path, 0));
    DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
        default_shell));
    sh_found = 1;
}
else
{
    char *p;
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

    /* Search Path for shell */
    if (v && v->value)
    {
        char *ep;

        p = v->value;
        ep = strchr (p, PATH_SEPARATOR_CHAR);

        while (ep && *ep)
        {
            *ep = '\0';

            sprintf (sh_path, "%s/%s", p, search_token);
            if (_access (sh_path, 0) == 0)
            {
                default_shell = xstrdup (w32ify (sh_path, 0));
                sh_found = 1;
                *ep = PATH_SEPARATOR_CHAR;

                /* terminate loop */
                p += strlen (p);
            }
            else
            {

```

```

        *ep = PATH_SEPARATOR_CHAR;
        p = ++ep;
    }

    ep = strchr (p, PATH_SEPARATOR_CHAR);
}

/* be sure to check last element of Path */
if (p && *p)
{
    sprintf (sh_path, "%s/%s", p, search_token);
    if (_access (sh_path, 0) == 0)
    {
        default_shell = xstrdup (w32ify (sh_path, 0));
        sh_found = 1;
    }
}

if (sh_found)
    DB (DB_VERBOSE,
        _("find_and_set_shell() path search set default_shell = %s\n"),
        default_shell);
}
}

/* naive test */
if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#ifdef BATCH_MODE_ONLY_SHELL
    batch_mode_shell = 1;
#endif

free (atoken);

return (sh_found);
}
#endif /* WINDOWS32 */

#ifdef __MSDOS__
static void
msdos_return_to_initial_directory (void)
{
    if (directory_before_chdir)

```

```

    chdir (directory_before_chdir);
}
#endif /* __MSDOS__ */

static void
reset_jobserver (void)
{
    jobserver_clear ();
    free (jobserver_auth);
    jobserver_auth = NULL;
}

#ifdef _AMIGA
int
main (int argc, char **argv)
#else
int
main (int argc, char **argv, char **envp)
#endif
{
    static char *stdin_nm = 0;
    int makefile_status = MAKE_SUCCESS;
    struct goaldep *read_files;
    PATH_VAR (current_directory);
    unsigned int restarts = 0;
    unsigned int syncing = 0;
    int argv_slots;
#ifdef WINDOWS32
    const char *unix_path = NULL;
    const char *windows32_path = NULL;

    SetUnhandledExceptionFilter (handle_runtime_exceptions);

    /* start off assuming we have no shell */
    unixy_shell = 0;
    no_default_sh_exe = 1;
#endif

    output_init (&make_sync);

    initialize_stopchar_map();

#ifdef SET_STACK_SIZE
    /* Get rid of any avoidable limit on stack size. */
    {
        struct rlimit rlim;

        /* Set the stack limit huge so that alloca does not fail. */

```

```

if (getrlimit (RLIMIT_STACK, &rlim) == 0
    && rlim.rlim_cur > 0 && rlim.rlim_cur < rlim.rlim_max)
{
    stack_limit = rlim;
    rlim.rlim_cur = rlim.rlim_max;
    setrlimit (RLIMIT_STACK, &rlim);
}
else
    stack_limit.rlim_cur = 0;
}
#endif

/* Needed for OS/2 */
initialize_main (&argc, &argv);

#ifdef MAKE_MAINTAINER_MODE
/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#if defined (__MSDOS__) && !defined (_POSIX_SOURCE)
/* Request the most powerful version of 'system', to
   make up for the dumb default shell. */
__system_flags = (__system_redirect
    | __system_use_shell
    | __system_allow_multiple_cmds
    | __system_allow_long_cmds
    | __system_handle_null_commands
    | __system_emulate_chdir);
#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");
/* The cast to void shuts up compiler warnings on systems that
   disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);
(void)textdomain (PACKAGE);

#ifdef POSIX
sigemptyset (&fatal_signal_set);
#define ADD_SIG(sig) sigaddset (&fatal_signal_set, sig)
#else
#ifdef HAVE_SIGSETMASK
fatal_signal_mask = 0;
#define ADD_SIG(sig) fatal_signal_mask |= sigmask (sig)
#else
#define ADD_SIG(sig) (void)sig

```

```

#endif
#endif

#define FATAL_SIG(sig) \
if (bsd_signal (sig, fatal_error_signal) == SIG_IGN) \
    bsd_signal (sig, SIG_IGN); \
else \
    ADD_SIG (sig);

#ifdef SIGHUP
    FATAL_SIG (SIGHUP);
#endif
#ifdef SIGQUIT
    FATAL_SIG (SIGQUIT);
#endif
    FATAL_SIG (SIGINT);
    FATAL_SIG (SIGTERM);

#ifdef __MSDOS__
    /* Windows 9X delivers FP exceptions in child programs to their
       parent! We don't want Make to die when a child divides by zero,
       so we work around that lossage by catching SIGFPE. */
    FATAL_SIG (SIGFPE);
#endif

#ifdef SIGDANGER
    FATAL_SIG (SIGDANGER);
#endif
#ifdef SIGXCPU
    FATAL_SIG (SIGXCPU);
#endif
#ifdef SIGXFSZ
    FATAL_SIG (SIGXFSZ);
#endif

#undef FATAL_SIG

    /* Do not ignore the child-death signal. This must be done before
       any children could possibly be created; otherwise, the wait
       functions won't work on systems with the SVR4 ECHILD brain
       damage, if our invoker is ignoring this signal. */

#ifdef HAVE_WAIT_NOHANG
    # if defined SIGCHLD
        (void) bsd_signal (SIGCHLD, SIG_DFL);
    # endif
    # if defined SIGCLD && SIGCLD != SIGCHLD
        (void) bsd_signal (SIGCLD, SIG_DFL);
    # endif

```



```

#endif
#endif

output_init (NULL);

/* Figure out where this program lives. */

if (argv[0] == 0)
    argv[0] = (char *)"";
if (argv[0][0] == '\0')
    program = "make";
else
    {
    program = strrchr (argv[0], '/');
#if defined(__MSDOS__) || defined(__EMX__)
    if (program == 0)
        program = strrchr (argv[0], '\\');
    else
        {
        /* Some weird environments might pass us argv[0] with
        both kinds of slashes; we must find the rightmost. */
        char *p = strrchr (argv[0], '\\');
        if (p && p > program)
            program = p;
        }
    if (program == 0 && argv[0][1] == ':')
        program = argv[0] + 1;
#endif
}
#endif
#ifdef WINDOWS32
    if (program == 0)
        {
        /* Extract program from full path */
        program = strrchr (argv[0], '\\');
        if (program)
            {
            int argv0_len = strlen (program);
            if (argv0_len > 4 && streq (&program[argv0_len - 4], ".exe"))
                /* Remove .exe extension */
                program[argv0_len - 4] = '\0';
            }
        }
}
#endif
#ifdef VMS
    set_program_name (argv[0]);
    program = program_name;
    {
    const char *shell;
    char pwdbuf[256];

```

```

char *pwd;
shell = getenv ("SHELL");
if (shell != NULL)
    vms_gnv_shell = 1;

/* Need to know if CRTL set to report UNIX paths. Use getcwd as
   it works on all versions of VMS. */
pwd = getcwd(pwdbuf, 256);
if (pwd[0] == '/')
    vms_report_unix_paths = 1;

vms_use_mcr_command = get_vms_env_flag ("GNV$MAKE_USE_MCR", 0);

vms_always_use_cmd_file = get_vms_env_flag ("GNV$MAKE_USE_CMD_FILE", 0);

/* Legacy behavior is on VMS is older behavior that needed to be
   changed to be compatible with standard make behavior.
   For now only completely disable when running under a Bash shell.
   TODO: Update VMS built in recipes and macros to not need this
   behavior, at which time the default may change. */
vms_legacy_behavior = get_vms_env_flag ("GNV$MAKE_OLD_VMS",
                                       !vms_gnv_shell);

/* VMS was changed to use a comma separator in the past, but that is
   incompatible with built in functions that expect space separated
   lists. Allow this to be selectively turned off. */
vms_comma_separator = get_vms_env_flag ("GNV$MAKE_COMMA",
                                       vms_legacy_behavior);

/* Some Posix shell syntax options are incompatible with VMS syntax.
   VMS requires double quotes for strings and escapes quotes
   differently. When this option is active, VMS will try
   to simulate Posix shell simulations instead of using
   VMS DCL behavior. */
vms_unix_simulation = get_vms_env_flag ("GNV$MAKE_SHELL_SIM",
                                       !vms_legacy_behavior);

}
if (need_vms_symbol () && !vms_use_mcr_command)
    create_foreign_command (program_name, argv[0]);
#else
if (program == 0)
    program = argv[0];
else
    ++program;
#endif
}

```

```

/* Set up to access user data (files). */
user_access ();

initialize_global_hash_tables ();

/* Figure out where we are. */

#ifdef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
#ifdef HAVE_GETCWD
perror_with_name ("getcwd", "");
#else
OS (error, NILF, "getwd: %s", current_directory);
#endif
current_directory[0] = '\0';
directory_before_chdir = 0;
}
else
directory_before_chdir = xstrdup (current_directory);

#ifdef __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif

/* Initialize the special variables. */
define_variable_cname (".VARIABLES", "", o_default, 0)->special = 1;
/* define_variable_cname (".TARGETS", "", o_default, 0)->special = 1; */
define_variable_cname (".RECIPEPREFIX", "", o_default, 0)->special = 1;
define_variable_cname (".SHELLFLAGS", "-c", o_default, 0);
define_variable_cname (".LOADED", "", o_default, 0);

/* Set up .FEATURES
Use a separate variable because define_variable_cname() is a macro and
some compilers (MSVC) don't like conditionals in macros. */
{
const char *features = "target-specific order-only second-expansion"
" else-if shortest-stem undefine oneshell"
#ifdef NO_ARCHIVES
" archives"
#endif
#ifdef MAKE_JOBSEVER
" jobserver"
#endif
};

```

```

#ifndef NO_OUTPUT_SYNC
    " output-sync"
#endif
#ifdef MAKE_SYMLINKS
    " check-symlink"
#endif
#ifdef HAVE_GUILLE
    " guile"
#endif
#ifdef MAKE_LOAD
    " load"
#endif
    ;

    define_variable_cname (".FEATURES", features, o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
   done before $(MAKE) is figured out so its definitions will not be
   from the environment. */

#ifndef _AMIGA
{
    unsigned int i;

    for (i = 0; envp[i] != 0; ++i)
    {
        struct variable *v;
        const char *ep = envp[i];
        /* By default, export all variables culled from the environment. */
        enum variable_export export = v_export;
        unsigned int len;

        while (! STOP_SET (*ep, MAP_EQUALS))
            ++ep;

        /* If there's no equals sign it's a malformed environment. Ignore. */
        if (*ep == '\0')
            continue;
    }
}

#ifdef WINDOWS32
    if (!unix_path && strcmp (envp[i], "PATH=", 5))
        unix_path = ep+1;
    else if (!strnicmp (envp[i], "Path=", 5))
    {

```

```

    if (!windows32_path)
        windows32_path = ep+1;
    /* PATH gets defined after the loop exits. */
    continue;
}
#endif

/* Length of the variable name, and skip the '='. */
len = ep++ - envp[i];

/* If this is MAKE_RESTARTS, check to see if the "already printed
the enter statement" flag is set. */
if (len == 13 && strcmp (envp[i], "MAKE_RESTARTS", 13))
{
    if (*ep == '-')
    {
        OUTPUT_TRACED ();
        ++ep;
    }
    restarts = (unsigned int) atoi (ep);
    export = v_noexport;
}

v = define_variable (envp[i], len, ep, o_env, 1);

/* POSIX says the value of SHELL set in the makefile won't change the
value of SHELL given to subprocesses. */
if (strcmp (v->name, "SHELL"))
{
#ifdef __MSDOS__
    export = v_noexport;
#endif
    shell_var.name = xstrdup ("SHELL");
    shell_var.length = 5;
    shell_var.value = xstrdup (ep);
}

v->export = export;
}
}
#ifdef WINDOWS32
/* If we didn't find a correctly spelled PATH we define PATH as
* either the first misspelled value or an empty string
*/
if (!unix_path)
    define_variable_cname ("PATH", windows32_path ? windows32_path : "",
        o_env, 1)->export = v_export;
#endif

```

```

#else /* For Amiga, read the ENV: device, ignoring all dirs */
{
    BPTR env, file, old;
    char buffer[1024];
    int len;
    __aligned struct FileInfoBlock fib;

    env = Lock ("ENV:", ACCESS_READ);
    if (env)
    {
        old = CurrentDir (DupLock (env));
        Examine (env, &fib);

        while (ExNext (env, &fib))
        {
            if (fib.fib_DirEntryType < 0) /* File */
            {
                /* Define an empty variable. It will be filled in
                variable_lookup(). Makes startup quite a bit faster. */
                define_variable (fib.fib_FileName,
                                strlen (fib.fib_FileName),
                                "", o_env, 1)->export = v_export;
            }
        }
        UnLock (env);
        UnLock (CurrentDir (old));
    }
}
#endif

/* Decode the switches. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", "", o_env, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));

#if 0
/* People write things like:
MFLAGS="CC=gcc -pipe" "CFLAGS=-g"
and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* In output sync mode we need to sync any output generated by reading the
makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */

```

```

syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET (&make_sync);

/* Remember the job slots set through the environment vs. command line. */
{
    int env_slots = arg_job_slots;
    arg_job_slots = INVALID_JOB_SLOTS;

    decode_switches (argc, (const char **)argv, 0);
    argv_slots = arg_job_slots;

    if (arg_job_slots == INVALID_JOB_SLOTS)
        arg_job_slots = env_slots;
}

/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#ifdef HAVE_ISATTY
if (isatty (fileno (stdout)))
    if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
        {
            const char *tty = TTYNAME (fileno (stdout));
            define_variable_cname ("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
                o_default, 0)->export = v_export;
        }
if (isatty (fileno (stderr)))
    if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
        {
            const char *tty = TTYNAME (fileno (stderr));
            define_variable_cname ("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
                o_default, 0)->export = v_export;
        }
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* Figure out the level of recursion. */
{
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
    if (v && v->value[0] != '\0' && v->value[0] != '-')

```

```

    makelevel = (unsigned int) atoi (v->value);
else
    makelevel = 0;
}

#ifdef WINDOWS32
if (suspend_flag)
{
    fprintf (stderr, "%s (pid = %ld)\n", argv[0], GetCurrentProcessId ());
    fprintf (stderr, _("%s is suspending for 30 seconds..."), argv[0]);
    Sleep (30 * 1000);
    fprintf (stderr, _("done sleep(30). Continuing.\n"));
}
#endif

/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);

/* Print version information, and exit. */
if (print_version_flag)
{
    print_version ();
    die (MAKE_SUCCESS);
}

if (ISDB (DB_BASIC))
    print_version ();

#ifdef VMS
/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
   (If it is a relative pathname with a slash, prepend our directory name
   so the result will run the same program regardless of the current dir.
   If it is a name with no slash, we can only hope that PATH did not
   find it in the current directory.) */
#endif
#ifdef WINDOWS32
/*
 * Convert from backslashes to forward slashes for
 * programs like sh which don't like them. Shouldn't
 * matter if the path is one way or the other for
 * CreateProcess().
 */
if (strpbrk (argv[0], ":\\")) || strstr (argv[0], "..")
    || strneq (argv[0], "/" , 2)
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#if defined (__MSDOS__) || defined (__EMX__)
if (strchr (argv[0], '\\'))
{

```



```

char *p;

argv[0] = xstrdup (argv[0]);
for (p = argv[0]; *p; p++)
    if (*p == '\\')
        *p = '/';
}
/* If argv[0] is not in absolute form, prepend the current
   directory. This can happen when Make is invoked by another DJGPP
   program that uses a non-absolute name. */
if (current_directory[0] != '\0'
    && argv[0] != 0
    && (argv[0][0] != '/' && (argv[0][0] == '\0' || argv[0][1] != ':'))
# ifdef __EMX__
    /* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
    && (strchr (argv[0], '/') != 0 || strchr (argv[0], '\\') != 0)
# endif
)
    argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#else /* !__MSDOS__ */
if (current_directory[0] != '\0'
    && argv[0] != 0 && argv[0][0] != '/' && strchr (argv[0], '/') != 0
#ifdef HAVE_DOS_PATHS
    && (argv[0][0] != '\\' && (!argv[0][0] || argv[0][1] != ':'))
    && strchr (argv[0], '\\') != 0
#endif
)
    argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#endif /* !__MSDOS__ */
#endif /* WINDOWS32 */
#endif

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver. This can't be usefully set
   in the makefile, and we want to verify the authorization is valid before
   make has a chance to start using it for something else. */

if (jobserver_auth)
{
    if (argv_slots == INVALID_JOB_SLOTS)
    {
        if (jobserver_parse_auth (jobserver_auth))
        {
            /* Success! Use the jobserver. */
            job_slots = 0;
            goto job_setup_complete;
        }
    }
}

```

```

    }

    O (error, NILF, _("warning: jobserver unavailable: using -j1. Add '+' to parent make rule."));
    arg_job_slots = 1;
}

/* The user provided a -j setting on the command line: use it. */
else if (!restarts)
    /* If restarts is >0 we already printed this message. */
    O (error, NILF,
        _("warning: -jN forced in submake: disabling jobserver mode."));

/* We failed to use our parent's jobserver. */
reset_jobserver ();
job_slots = (unsigned int)arg_job_slots;
}
else if (arg_job_slots == INVALID_JOB_SLOTS)
    /* The default is one job at a time. */
    job_slots = 1;
else
    /* Use whatever was provided. */
    job_slots = (unsigned int)arg_job_slots;

job_setup_complete:

/* The extra indirection through $(MAKE_COMMAND) is done
   for hysterical raisins. */

#ifdef VMS
if (vms_use_mcr_command)
    define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
else
    define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
define_variable_cname ("MAKE", "$(MAKE_COMMAND)", o_default, 1);

if (command_variables != 0)
{
    struct command_variable *cv;
    struct variable *v;
    unsigned int len = 0;
    char *value, *p;

    /* Figure out how much space will be taken up by the command-line
       variable definitions. */
    for (cv = command_variables; cv != 0; cv = cv->next)

```

```

{
    v = cv->variable;
    len += 2 * strlen (v->name);
    if (! v->recursive)
        ++len;
    ++len;
    len += 2 * strlen (v->value);
    ++len;
}

/* Now allocate a buffer big enough and fill it. */
p = value = alloca (len);
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    p = quote_for_env (p, v->name);
    if (! v->recursive)
        *p++ = ':';
    *p++ = '=';
    p = quote_for_env (p, v->value);
    *p++ = ' ';
}
p[-1] = '\0';      /* Kill the final space and terminate. */

/* Define an unchangeable variable with a name that no POSIX.2
   makefile could validly use for its own variable. */
define_variable_cname ("-*-command-variables-*-", value, o_automatic, 0);

/* Define the variable; this will not override any user definition.
   Normally a reference to this variable is written into the value of
   MAKEFLAGS, allowing the user to override this value to affect the
   exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot
   allow the user's setting of MAKEOVERRIDES to affect MAKEFLAGS, so
   a reference to this hidden variable is written instead. */
define_variable_cname ("MAKEOVERRIDES", "${-*-command-variables-*-}",
    o_env, 1);
#ifdef VMS
    vms_export_dcl_symbol ("MAKEOVERRIDES", "${-*-command-variables-*-}");
#endif
}

/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
    unsigned int i;
    for (i = 0; directories->list[i] != 0; ++i)
    {
        const char *dir = directories->list[i];

```

```

#ifdef WINDOWS32
    /* WINDOWS32 chdir() doesn't work if the directory has a trailing '/'
       But allow -C/ just in case someone wants that. */
    {
        char *p = (char *)dir + strlen (dir) - 1;
        while (p > dir && (p[0] == '/' || p[0] == '\\'))
            --p;
        p[1] = '\0';
    }
#endif

if (chdir (dir) < 0)
    pfatal_with_name (dir);
}
}

#ifdef WINDOWS32
/*
 * THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER
 * TO NOT CONFUSE THE DEPENDENCY CHECKING CODE IN implicit.c.
 *
 * The functions in dir.c can incorrectly cache information for "."
 * before we have changed directory and this can cause file
 * lookups to fail because the current directory (.) was pointing
 * at the wrong place when it was first evaluated.
 */
no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;

/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;

/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_built_in_variables_flag)
    no_built_in_rules_flag = 1;

/* Construct the list of include directories to search. */

construct_include_path (include_directories == 0
                       ? 0 : include_directories->list);

/* If we chdir'ed, figure out where we are now. */
if (directories)
{

```

```

#ifdef WINDOWS32
    if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
    if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
    {
#ifdef HAVE_GETCWD
        perror_with_name ("getcwd", "");
#else
        OS (error, NILF, "getwd: %s", current_directory);
#endif
        starting_directory = 0;
    }
    else
        starting_directory = current_directory;
}

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)
{
    unsigned int i;
    for (i = 0; i < makefiles->idx; ++i)
        if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '\0')
            {
                /* This makefile is standard input. Since we may re-exec
                and thus re-read the makefiles, we read standard input
                into a temporary file and read from that. */
                FILE *outfile;
                char *template;
                const char *tmpdir;

                if (stdin_nm)
                    O (fatal, NILF,
                        _("Makefile from standard input specified twice.));

#ifdef VMS
# define DEFAULT_TMPDIR    "/sys$scratch/"
#else
# ifdef P_tmpdir
# define DEFAULT_TMPDIR    P_tmpdir
# else
# define DEFAULT_TMPDIR    "/tmp"
# endif
#endif
#define DEFAULT_TMPFILE    "GmXXXXXX"

```

```

        if (((tmpdir = getenv ("TMPDIR")) == NULL || *tmpdir == '\0')
#if defined (__MSDOS__) || defined (WINDOWS32) || defined (__EMX__)
        /* These are also used commonly on these platforms. */
        && ((tmpdir = getenv ("TEMP")) == NULL || *tmpdir == '\0')
        && ((tmpdir = getenv ("TMP")) == NULL || *tmpdir == '\0')
#endif
        )
        tmpdir = DEFAULT_TMPDIR;

        template = alloca (strlen (tmpdir) + CSTRLEN (DEFAULT_TMPFILE) + 2);
        strcpy (template, tmpdir);

#ifdef HAVE_DOS_PATHS
        if (strchr ("\\", template[strlen (template) - 1]) == NULL)
            strcat (template, "/");
#else
#ifdef VMS
            if (template[strlen (template) - 1] != '/')
                strcat (template, "/");
#endif
#endif /* !VMS */
#ifdef HAVE_DOS_PATHS /*
            strcat (template, DEFAULT_TMPFILE);
            outfile = output_tmpfile (&stdin_nm, template);
            if (outfile == 0)
                pfatal_with_name (_("fopen (temporary file)"));
            while (!feof (stdin) && ! ferror (stdin))
            {
                char buf[2048];
                unsigned int n = fread (buf, 1, sizeof (buf), stdin);
                if (n > 0 && fwrite (buf, 1, n, outfile) != n)
                    pfatal_with_name (_("fwrite (temporary file)"));
            }
            fclose (outfile);

            /* Replace the name that read_all_makefiles will
            see with the name of the temporary file. */
            makefiles->list[i] = strcache_add (stdin_nm);

            /* Make sure the temporary file will not be remade. */
            {
                struct file *f = enter_file (strcache_add (stdin_nm));
                f->updated = 1;
                f->update_status = us_success;
                f->command_state = cs_finished;
                /* Can't be intermediate, or it'll be removed too early for
                make re-exec. */

```

```

        f->intermediate = 0;
        f->dontcare = 0;
    }
}
}

```

```

#ifndef __EMX__ /* Don't use a SIGCHLD handler for OS/2 */
#if !defined(HAVE_WAIT_NOHANG) || defined(MAKE_JOBSEVER)
/* Set up to handle children dying. This must be done before
reading in the makefiles so that 'shell' function calls will work.

```

If we don't have a hanging wait we have to fall back to old, broken functionality here and rely on the signal handler and counting children.

If we're using the jobs pipe we need a signal handler so that SIGCHLD is not ignored; we need it to interrupt the read(2) of the jobserver pipe if we're waiting for a token.

```

If none of these are true, we don't need a signal handler at all. */
{
# if defined SIGCHLD
    bsd_signal (SIGCHLD, child_handler);
# endif
# if defined SIGCLD && SIGCLD != SIGCHLD
    bsd_signal (SIGCLD, child_handler);
# endif
}

```

```

#ifdef HAVE_PSELECT
/* If we have pselect() then we need to block SIGCHLD so it's deferred. */
{
    sigset_t block;
    sigemptyset (&block);
    sigaddset (&block, SIGCHLD);
    if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
        pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)");
}
#endif

```

```

#endif
#endif

```

```

/* Let the user send us SIGUSR1 to toggle the -d flag during the run. */
#ifdef SIGUSR1
    bsd_signal (SIGUSR1, debug_signal_handler);
#endif

```

```

/* Define the initial list of suffixes for old-style rules. */
set_default_suffixes ();

/* Define the file rules for the built-in suffix rules. These will later
   be converted into pattern rules. We used to do this in
   install_default_implicit_rules, but since that happens after reading
   makefiles, it results in the built-in pattern rules taking precedence
   over makefile-specified suffix rules, which is wrong. */
install_default_suffix_rules ();

/* Define some internal and special variables. */
define_automatic_variables ();

/* Set up the MAKEFLAGS and MFLAGS variables for makefiles to see.
   Initialize it to be exported but allow the makefile to reset it. */
define_makeflags (0, 0)->export = v_export;

/* Define the default variables. */
define_default_variables ();

default_file = enter_file (strcache_add (".DEFAULT"));

default_goal_var = define_variable_cname (".DEFAULT_GOAL", "", o_file, 0);

/* Evaluate all strings provided with --eval.
   Also set up the $(-*-eval-flags-*) variable. */

if (eval_strings)
{
  char *p, *value;
  unsigned int i;
  unsigned int len = (CSTRLEN ("--eval=") + 1) * eval_strings->idx;

  for (i = 0; i < eval_strings->idx; ++i)
  {
    p = xstrdup (eval_strings->list[i]);
    len += 2 * strlen (p);
    eval_buffer (p, NULL);
    free (p);
  }

  p = value = alloca (len);
  for (i = 0; i < eval_strings->idx; ++i)
  {
    strcpy (p, "--eval=");
    p += CSTRLEN ("--eval=");
    p = quote_for_env (p, eval_strings->list[i]);
    *(p++) = ' ';
  }
}

```



```

    }
    p[-1] = '\0';

    define_variable_cname ("-*-eval-flags-*-", value, o_automatic, 0);
}

/* Read all the makefiles. */

read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
    no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
/* We need to know what kind of shell we will be using. */
{
    extern int _is_unixy_shell (const char *_path);
    struct variable *shv = lookup_variable (STRING_SIZE_TUPLE ("SHELL"));
    extern int unixy_shell;
    extern const char *default_shell;

    if (shv && *shv->value)
    {
        char *shell_path = recursively_expand (shv);

        if (shell_path && _is_unixy_shell (shell_path))
            unixy_shell = 1;
        else
            unixy_shell = 0;
        if (shell_path)
            default_shell = shell_path;
    }
}
#endif /* __MSDOS__ || __EMX__ */

{
    int old_builtin_rules_flag = no_builtin_rules_flag;
    int old_builtin_variables_flag = no_builtin_variables_flag;

    /* Decode switches again, for variables set by the makefile. */
    decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

    /* Clear GNUMAKEFLAGS to avoid duplication. */
    define_variable_cname ("GNUMAKEFLAGS", "", o_override, 0);
}

```

```

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));
#if 0
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* Reset in case the switches changed our mind. */
syncing = (output_sync == OUTPUT_SYNC_LINE
           || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* If we've disabled builtin rules, get rid of them. */
if (no_builtin_rules_flag && ! old_builtin_rules_flag)
{
if (suffix_file->builtin)
{
free_dep_chain (suffix_file->deps);
suffix_file->deps = 0;
}
define_variable_cname ("SUFFIXES", "", o_default, 0);
}

/* If we've disabled builtin variables, get rid of them. */
if (no_builtin_variables_flag && ! old_builtin_variables_flag)
undefine_default_variables ();
}

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
if (arg_job_slots != 1
# ifdef __EMX__
&& _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
# endif
)
{
O (error, NILF,
_ ("Parallel jobs (-j) are not supported on this platform.));
O (error, NILF, _ ("Resetting to single job (-j1) mode.));
arg_job_slots = job_slots = 1;
}
#endif

/* If we have >1 slot at this point, then we're a top-level make.
Set up the jobserver.

```

Every make assumes that it always has one job it can run. For the submakes it's the token they were given by their parent. For the top make, we just subtract one from the number the user wants. \*/

```
if (job_slots > 1 && jobserver_setup (job_slots - 1))
{
    /* Fill in the jobserver_auth for our children. */
    jobserver_auth = jobserver_get_auth ();

    if (jobserver_auth)
    {
        /* We're using the jobserver so set job_slots to 0. */
        master_job_slots = job_slots;
        job_slots = 0;
    }
}

/* If we're not using parallel jobs, then we don't need output sync.
This is so people can enable output sync in GNUMAKEFLAGS or similar, but
not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
    OUTPUT_UNSET ();
    output_close (&make_sync);
    syncing = 0;
    output_sync = OUTPUT_SYNC_NONE;
}

#ifndef MAKE_SYMLINKS
if (check_symlink_flag)
{
    O (error, NILF, _("Symbolic links not supported: disabling -L."));
    check_symlink_flag = 0;
}
#endif

/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */

define_makeflags (1, 0);

/* Make each 'struct goaldep' point at the 'struct file' for the file
depended on. Also do magic for special targets. */

snap_deps ();

/* Convert old-style suffix rules to pattern rules. It is important to
do this before installing the built-in pattern rules below, so that
makefile-specified suffix rules take precedence over built-in pattern
```

```

rules. */

convert_to_pattern ();

/* Install the default implicit pattern rules.
   This used to be done before reading the makefiles.
   But in that case, built-in pattern rules were in the chain
   before user-defined ones, so they matched first. */

install_default_implicit_rules ();

/* Compute implicit rule limits. */

count_implicit_rule_limits ();

/* Construct the listings of directories in VPATH lists. */

build_vpath_lists ();

/* Mark files given with -o flags as very old and as having been updated
   already, and files given with -W flags as brand new (time-stamp as far
   as possible into the future). If restarts is set we'll do -W later. */

if (old_files != 0)
{
  const char **p;
  for (p = old_files->list; *p != 0; ++p)
  {
    struct file *f = enter_file (*p);
    f->last_mtime = f->mtime_before_update = OLD_MTIME;
    f->updated = 1;
    f->update_status = us_success;
    f->command_state = cs_finished;
  }
}

if (!restarts && new_files != 0)
{
  const char **p;
  for (p = new_files->list; *p != 0; ++p)
  {
    struct file *f = enter_file (*p);
    f->last_mtime = f->mtime_before_update = NEW_MTIME;
  }
}

/* Initialize the remote job module. */
remote_setup ();

```

```

/* Dump any output we've collected. */

OUTPUT_UNSET ();
output_close (&make_sync);

if (read_files != 0)
{
/* Update any makefiles if necessary. */

FILE_TIMESTAMP *makefile_mtimes = 0;
unsigned int mm_idx = 0;
char **aargv = NULL;
const char **nargv;
int nargc;
enum update_status status;

DB (DB_BASIC, (_("Updating makefiles...\n")));

/* Remove any makefiles we don't want to try to update.
Also record the current modtimes so we can compare them later. */
{
register struct goaldep *d, *last;
last = 0;
d = read_files;
while (d != 0)
{
struct file *f = d->file;
if (f->double_colon)
for (f = f->double_colon; f != NULL; f = f->prev)
{
if (f->deps == 0 && f->cmds != 0)
{
/* This makefile is a :: target with commands, but
no dependencies. So, it will always be remade.
This might well cause an infinite loop, so don't
try to remake it. (This will only happen if
your makefiles are written exceptionally
stupidly; but if you work for Athena, that's how
you write your makefiles.) */

DB (DB_VERBOSE,
(_("Makefile '%s' might loop; not remaking it.\n"),
f->name));

if (last == 0)
read_files = d->next;
else

```

```

        last->next = d->next;

        /* Free the storage. */
        free_goaldep (d);

        d = last == 0 ? read_files : last->next;

        break;
    }
}

if (f == NULL || !f->double_colon)
{
    makefile_mtimes = xrealloc (makefile_mtimes,
                               (mm_idx+1)
                               * sizeof (FILE_TIMESTAMP));
    makefile_mtimes[mm_idx++] = file_mtime_no_search (d->file);
    last = d;
    d = d->next;
}
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);

{
    int orig_db_level = db_level;

    if (!ISDB (DB_MAKEFILES))
        db_level = DB_NONE;

    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;

    db_level = orig_db_level;
}

switch (status)
{
    case us_question:
        /* The only way this can happen is if the user specified -q and asked
           for one of the makefiles to be remade as a target on the command
           line. Since we're not actually updating anything with -q we can
           treat this as "did nothing". */

    case us_none:

```

```

/* Did nothing. */
break;

case us_failed:
/* Failed to update. Figure out if we care. */
{
/* Nonzero if any makefile was successfully remade. */
int any_remade = 0;
/* Nonzero if any makefile we care about failed
in updating or could not be found at all. */
int any_failed = 0;
unsigned int i;
struct goaldep *d;

for (i = 0, d = read_files; d != 0; ++i, d = d->next)
{
if (d->file->updated)
{
/* This makefile was updated. */
if (d->file->update_status == us_success)
{
/* It was successfully updated. */
any_remade |= (file_mtime_no_search (d->file)
!= makefile_mtimes[i]);
}
else if (!(d->flags & RM_DONTCARE))
{
FILE_TIMESTAMP mtime;
/* The update failed and this makefile was not
from the MAKEFILES variable, so we care. */
OS (error, NILF, _("Failed to remake makefile '%s'."),
d->file->name);
mtime = file_mtime_no_search (d->file);
any_remade |= (mtime != NONEXISTENT_MTIME
&& mtime != makefile_mtimes[i]);
makefile_status = MAKE_FAILURE;
}
}
else
/* This makefile was not found at all. */
if (!(d->flags & RM_DONTCARE))
{
const char *dnm = dep_name (d);
size_t l = strlen (dnm);

/* This is a makefile we care about. See how much. */
if (d->flags & RM_INCLUDED)
/* An included makefile. We don't need to die, but we

```

```

        do want to complain. */
        error (NILF, 1,
            _("Included makefile '%s' was not found."), dnm);
    else
    {
        /* A normal makefile. We must die later. */
        error (NILF, 1,
            _("Makefile '%s' was not found"), dnm);
        any_failed = 1;
    }
}

/* Reset this to empty so we get the right error message below. */
read_files = 0;

if (any_remade)
    goto re_exec;
if (any_failed)
    die (MAKE_FAILURE);
break;
}

case us_success:
re_exec:
/* Updated successfully. Re-exec ourselves. */

remove_intermediates (0);

if (print_data_base_flag)
    print_data_base ();

clean_jobserver (0);

if (makefiles != 0)
{
    /* These names might have changed. */
    int i, j = 0;
    for (i = 1; i < argc; ++i)
        if (strneq (argv[i], "-f", 2)) /* XXX */
        {
            if (argv[i][2] == '\0')
                /* This cast is OK since we never modify argv. */
                argv[++i] = (char *) makefiles->list[j];
            else
                argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));
            ++j;
        }
}
}

```



```

/* Add -o option for the stdin temporary file, if necessary. */
nargc = argc;
if (stdin_nm)
{
    void *m = xmalloc ((nargc + 2) * sizeof (char *));
    argv = m;
    memcpy (argv, argc * sizeof (char *));
    argv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
    argv[nargc] = 0;
    nargv = m;
}
else
    nargv = (const char**)argv;

if (directories != 0 && directories->idx > 0)
{
    int bad = 1;
    if (directory_before_chdir != 0)
    {
        if (chdir (directory_before_chdir) < 0)
            perror_with_name ("chdir", "");
        else
            bad = 0;
    }
    if (bad)
        O (fatal, NILF,
            _("Couldn't change back to original directory.));
}

++restarts;

if (ISDB (DB_BASIC))
{
    const char **p;
    printf (_("Re-executing[%u]:"), restarts);
    for (p = nargv; *p != 0; ++p)
        printf (" %s", *p);
    putchar ('\n');
    fflush (stdout);
}

#ifdef _AMIGA
{
    char **p;
    for (p = environ; *p != 0; ++p)
    {
        if (strneq (*p, MAKELEVEL_NAME "=", MAKELEVEL_LENGTH+1))

```

```

    {
        *p = alloca (40);
        sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
#ifdef VMS
        vms_putenv_symbol (*p);
#endif
    }
    else if (strneq (*p, "MAKE_RESTARTS=", CSTRLEN ("MAKE_RESTARTS=")))
    {
        *p = alloca (40);
        sprintf (*p, "MAKE_RESTARTS=%s%u",
            OUTPUT_IS_TRACED () ? "-" : "", restarts);
        restarts = 0;
    }
}
}
#else /* AMIGA */
{
    char buffer[256];

    sprintf (buffer, "%u", makelevel);
    SetVar (MAKELEVEL_NAME, buffer, -1, GVF_GLOBAL_ONLY);

    sprintf (buffer, "%s%u", OUTPUT_IS_TRACED () ? "-" : "", restarts);
    SetVar ("MAKE_RESTARTS", buffer, -1, GVF_GLOBAL_ONLY);
    restarts = 0;
}
#endif

/* If we didn't set the restarts variable yet, add it. */
if (restarts)
{
    char *b = alloca (40);
    sprintf (b, "MAKE_RESTARTS=%s%u",
        OUTPUT_IS_TRACED () ? "-" : "", restarts);
    putenv (b);
}

fflush (stdout);
fflush (stderr);

#ifdef _AMIGA
    exec_command (nargv);
    exit (0);
#elif defined (__EMX__)
{
    /* It is not possible to use execve() here because this
       would cause the parent process to be terminated with

```

```

        exit code 0 before the child process has been terminated.
        Therefore it may be the best solution simply to spawn the
        child process including all file handles and to wait for its
        termination. */
int pid;
int r;
pid = child_execute_job (NULL, 1, nargv, environ);

/* is this loop really necessary? */
do {
    pid = wait (&r);
} while (pid <= 0);
/* use the exit code of the child process */
exit (WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
}
#else
#ifdef SET_STACK_SIZE
    /* Reset limits, if necessary. */
    if (stack_limit.rlim_cur)
        setrlimit (RLIMIT_STACK, &stack_limit);
#endif
    exec_command ((char **)nargv, environ);
#endif
    free (aargv);
    break;
}

/* Free the makefile mtimes. */
free (makefile_mtimes);
}

/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags (1, 0);

/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;

/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}
}

```

```

/* If there is a temp file from reading a makefile from stdin, get rid of
it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name (_("unlink (temporary file): "), stdin_nm);

/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
    {
        p = variable_buffer_output (variable_buffer, default_goal_var->value,
                                   strlen (default_goal_var->value));
        *p = '\0';
        p = variable_buffer;
    }

    if (*p != '\0')
    {
        struct file *f = lookup_file (p);

        /* If .DEFAULT_GOAL is a non-existent target, enter it into the
table and let the standard logic sort it out. */
        if (f == 0)
        {
            struct nameseq *ns;

            ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
            if (ns)
            {
                /* .DEFAULT_GOAL should contain one target. */
                if (ns->next != 0)
                    O (fatal, NILF,
                      _(".DEFAULT_GOAL contains more than one target"));

                f = enter_file (strcache_add (ns->name));

                ns->name = 0; /* It was reused by enter_file(). */
                free_ns_chain (ns);
            }
        }

        if (f)
        {
            goals = alloc_goaldep ();

```

```

        goals->file = f;
    }
}
else
    lastgoal->next = 0;

if (!goals)
{
    if (read_files == 0)
        O (fatal, NILF, _("No targets specified and no makefile found"));

    O (fatal, NILF, _("No targets"));
}

/* Update the goals. */

DB (DB_BASIC, (_("Updating goal targets...\n")));

{
    switch (update_goal_chain (goals))
    {
        case us_none:
            /* Nothing happened. */
            /* FALLTHROUGH */
        case us_success:
            /* Keep the previous result. */
            break;
        case us_question:
            /* We are under -q and would run some commands. */
            makefile_status = MAKE_TROUBLE;
            break;
        case us_failed:
            /* Updating failed. POSIX.2 specifies exit status >1 for this; */
            makefile_status = MAKE_FAILURE;
            break;
    }

    /* If we detected some clock skew, generate one last warning */
    if (clock_skew_detected)
        O (error, NILF,
            _("warning: Clock skew detected. Your build may be incomplete.));

    /* Exit. */
    die (makefile_status);
}

```

```

/* NOTREACHED */
exit (MAKE_SUCCESS);
}

/* Parsing of arguments, decoding of switches. */

static char options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
    (sizeof (long_option_aliases) /
    sizeof (long_option_aliases[0]))];

/* Fill in the string and vector for getopt. */
static void
init_switches (void)
{
    char *p;
    unsigned int c;
    unsigned int i;

    if (options[0] != '\0')
        /* Already done. */
        return;

    p = options;

    /* Return switch and non-switch args in order, regardless of
       POSIXLY_CORRECT. Non-switch args are returned as option 1. */
    *p++ = '-';

    for (i = 0; switches[i].c != '\0'; ++i)
    {
        long_options[i].name = (switches[i].long_name == 0 ? "" :
            switches[i].long_name);
        long_options[i].flag = 0;
        long_options[i].val = switches[i].c;
        if (short_option (switches[i].c))
            *p++ = switches[i].c;
        switch (switches[i].type)
        {
            case flag:
            case flag_off:
            case ignore:
                long_options[i].has_arg = no_argument;
                break;

            case string:
            case stlist:
            case filename:

```

```

case positive_int:
case floating:
    if (short_option (switches[i].c))
        *p++ = ':';
    if (switches[i].noarg_value != 0)
    {
        if (short_option (switches[i].c))
            *p++ = ':';
        long_options[i].has_arg = optional_argument;
    }
    else
        long_options[i].has_arg = required_argument;
    break;
}
}
*p = '\0';
for (c = 0; c < (sizeof (long_option_aliases) /
    sizeof (long_option_aliases[0]));
    ++c)
    long_options[i++] = long_option_aliases[c];
long_options[i].name = 0;
}

/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const char *arg, int env)
{
    struct variable *v;

    if (arg[0] == '-' && arg[1] == '\0')
        /* Ignore plain '-' for compatibility. */
        return;

#ifdef VMS
    {
        /* VMS DCL quoting can result in foo="bar baz" showing up here.
           Need to remove the double quotes from the value. */
        char *eq_ptr;
        char *new_arg;
        eq_ptr = strchr (arg, '=');
        if ((eq_ptr != NULL) && (eq_ptr[1] == '"'))
            {
                int len;
                int seg1;
                int seg2;
                len = strlen(arg);
                new_arg = alloca(len);
            }
        }
#endif
}

```

```

    seg1 = eq_ptr - arg + 1;
    strncpy(new_arg, arg, (seg1));
    seg2 = len - seg1 - 1;
    strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
    new_arg[seg1 + seg2] = 0;
    if (new_arg[seg1 + seg2 - 1] == '"')
        new_arg[seg1 + seg2 - 1] = 0;
    arg = new_arg;
}
}
#endif
v = try_variable_definition (0, arg, o_command, 0);
if (v != 0)
{
    /* It is indeed a variable definition. If we don't already have this
       one, record a pointer to the variable for later use in
       define_makeflags. */
    struct command_variable *cv;

    for (cv = command_variables; cv != 0; cv = cv->next)
        if (cv->variable == v)
            break;

    if (! cv)
    {
        cv = xmalloc (sizeof (*cv));
        cv->variable = v;
        cv->next = command_variables;
        command_variables = cv;
    }
}
else if (! env)
{
    /* Not an option or variable definition; it must be a goal
       target! Enter it as a file and add it to the dep chain of
       goals. */
    struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
    f->cmd_target = 1;

    if (goals == 0)
    {
        goals = alloc_goaldep ();
        lastgoal = goals;
    }
    else
    {
        lastgoal->next = alloc_goaldep ();
        lastgoal = lastgoal->next;
    }
}

```



```

    }

lastgoal->file = f;

{
    /* Add this target name to the MAKECMDGOALS variable. */
    struct variable *gv;
    const char *value;

    gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
    if (gv == 0)
        value = f->name;
    else
    {
        /* Paste the old and new values together */
        unsigned int oldlen, newlen;
        char *vp;

        oldlen = strlen (gv->value);
        newlen = strlen (f->name);
        vp = alloca (oldlen + 1 + newlen + 1);
        memcpy (vp, gv->value, oldlen);
        vp[oldlen] = ' ';
        memcpy (&vp[oldlen + 1], f->name, newlen + 1);
        value = vp;
    }
    define_variable_cname ("MAKECMDGOALS", value, o_default, 0);
}
}
}

/* Print a nice usage method. */

static void
print_usage (int bad)
{
    const char *const *cpp;
    FILE *usageto;

    if (print_version_flag)
        print_version ();

    usageto = bad ? stderr : stdout;

    fprintf (usageto, _("Usage: %s [options] [target] ...\n"), program);

    for (cpp = usage; *cpp; ++cpp)
        fputs (_(*cpp), usageto);

```

```

if (!remote_description || *remote_description == '\0')
    fprintf (usageto, _("\nThis program built for %s\n"), make_host);
else
    fprintf (usageto, _("\nThis program built for %s (%s)\n"),
            make_host, remote_description);

fprintf (usageto, _("Report bugs to <bug-make@gnu.org>\n"));
}

/* Decode switches from ARGV and ARGV.
   They came from the environment if ENV is nonzero. */

static void
decode_switches (int argc, const char **argv, int env)
{
    int bad = 0;
    register const struct command_switch *cs;
    register struct stringlist *sl;
    register int c;

    /* getopt does most of the parsing for us.
       First, get its vectors set up. */

    init_switches ();

    /* Let getopt produce error messages for the command line,
       but not for options from the environment. */
    opterr = !env;
    /* Reset getopt's state. */
    optind = 0;

    while (optind < argc)
    {
        const char *coptarg;

        /* Parse the next argument. */
        c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
        coptarg = optarg;
        if (c == EOF)
            /* End of arguments, or "--" marker seen. */
            break;
        else if (c == 1)
            /* An argument not starting with a dash. */
            handle_non_switch_argument (coptarg, env);
        else if (c == '?')
            /* Bad option. We will print a usage message and die later.
               But continue to parse the other options so the user can

```

```

    see all he did wrong. */
bad = 1;
else
for (cs = switches; cs->c != '\0'; ++cs)
    if (cs->c == c)
    {
        /* Whether or not we will actually do anything with
           this switch. We test this individually inside the
           switch below rather than just once outside it, so that
           options which are to be ignored still consume args. */
        int doit = !env || cs->env;

switch (cs->type)
    {
        default:
            abort ();

        case ignore:
            break;

        case flag:
        case flag_off:
            if (doit)
                *(int *) cs->value_ptr = cs->type == flag;
            break;

        case string:
        case strlist:
        case filename:
            if (!doit)
                break;

        if (!coptarg)
            coptarg = xstrdup (cs->noarg_value);
        else if (*coptarg == '\0')
        {
            char opt[2] = "c";
            const char *op = opt;

            if (short_option (cs->c))
                opt[0] = cs->c;
            else
                op = cs->long_name;

            error (NILF, strlen (op),
                _("the '%s%s' option requires a non-empty string argument"),
                short_option (cs->c) ? "-" : "--", op);
            bad = 1;

```

```

        break;
    }

    if (cs->type == string)
    {
        char **val = (char **)cs->value_ptr;
        free (*val);
        *val = xstrdup (coptarg);
        break;
    }

    sl = *(struct stringlist **) cs->value_ptr;
    if (sl == 0)
    {
        sl = xmalloc (sizeof (struct stringlist));
        sl->max = 5;
        sl->idx = 0;
        sl->list = xmalloc (5 * sizeof (char *));
        *(struct stringlist **) cs->value_ptr = sl;
    }
    else if (sl->idx == sl->max - 1)
    {
        sl->max += 5;
        /* MSVC erroneously warns without a cast here. */
        sl->list = xrealloc ((void *)sl->list,
                            sl->max * sizeof (char *));
    }
    if (cs->type == filename)
        sl->list[sl->idx++] = expand_command_line_file (coptarg);
    else
        sl->list[sl->idx++] = xstrdup (coptarg);
    sl->list[sl->idx] = 0;
    break;

case positive_int:
    /* See if we have an option argument; if we do require that
       it's all digits, not something like "10foo". */
    if (coptarg == 0 && argc > optind)
    {
        const char *cp;
        for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
            ;
        if (cp[0] == '\0')
            coptarg = argv[optind++];
    }

    if (!doit)
        break;

```

```

if (coptarg)
{
    int i = atoi (coptarg);
    const char *cp;

    /* Yes, I realize we're repeating this in some cases. */
    for (cp = coptarg; ISDIGIT (cp[0]); ++cp)
        ;

    if (i < 1 || cp[0] != '\0')
    {
        error (NILF, 0,
            _("the '-%c' option requires a positive integer argument"),
            cs->c);
        bad = 1;
    }
    else
        *(unsigned int *) cs->value_ptr = i;
}
else
    *(unsigned int *) cs->value_ptr
    = *(unsigned int *) cs->noarg_value;
break;

#ifdef NO_FLOAT
case floating:
    if (coptarg == 0 && optind < argc
        && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.'))
        coptarg = argv[optind++];

    if (doit)
        *(double *) cs->value_ptr
        = (coptarg != 0 ? atof (coptarg)
            : *(double *) cs->noarg_value);

    break;
#endif
}

/* We've found the switch. Stop looking. */
break;
}
}

/* There are no more options according to getting getopt, but there may
be some arguments left. Since we have asked for non-option arguments
to be returned in order, this only happens when there is a "--"

```

```

    argument to prevent later arguments from being options. */
while (optind < argc)
    handle_non_switch_argument (argv[optind++], env);

if (!env && (bad || print_usage_flag))
{
    print_usage (bad);
    die (bad ? MAKE_FAILURE : MAKE_SUCCESS);
}

/* If there are any options that need to be decoded do it now. */
decode_debug_flags ();
decode_output_sync_flags ();
}

/* Decode switches from environment variable ENVAR (which is LEN chars long).
We do this by chopping the value into a vector of words, prepending a
dash to the first word if it lacks one, and passing the vector to
decode_switches. */

static void
decode_env_switches (const char *envar, unsigned int len)
{
    char *varref = alloca (2 + len + 2);
    char *value, *p, *buf;
    int argc;
    const char **argv;

    /* Get the variable's value. */
    varref[0] = '$';
    varref[1] = '(';
    memcpy (&varref[2], envar, len);
    varref[2 + len] = ')';
    varref[2 + len + 1] = '\0';
    value = variable_expand (varref);

    /* Skip whitespace, and check for an empty value. */
    NEXT_TOKEN (value);
    len = strlen (value);
    if (len == 0)
        return;

    /* Allocate a vector that is definitely big enough. */
    argv = alloca ((1 + len + 1) * sizeof (char *));

    /* getopt will look at the arguments starting at ARGV[1].
Prepend a spacer word. */
    argv[0] = 0;

```

```

argc = 1;

/* We need a buffer to copy the value into while we split it into words
   and unquote it. Set up in case we need to prepend a dash later. */
buf = alloca (1 + len + 1);
buf[0] = '-';
p = buf+1;
argv[argc] = p;
while (*value != '\0')
{
    if (*value == '\\' && value[1] != '\0')
        ++value;          /* Skip the backslash. */
    else if (ISBLANK (*value))
    {
        /* End of the word. */
        *p++ = '\0';
        argv[++argc] = p;
        do
            ++value;
        while (ISBLANK (*value));
        continue;
    }
    *p++ = *value++;
}
*p = '\0';
argv[++argc] = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=') == 0)
    /* The first word doesn't start with a dash and isn't a variable
       definition, so add a dash. */
    argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);
}

/* Quote the string IN so that it will be interpreted as a single word with
   no magic by decode_env_switches; also double dollar signs to avoid
   variable expansion in make itself. Write the result into OUT, returning
   the address of the next character to be written.
   Allocating space for OUT twice the length of IN is always sufficient. */

static char *
quote_for_env (char *out, const char *in)
{
    while (*in != '\0')
    {

```

```

    if (*in == '$')
        *out++ = '$';
    else if (ISBLANK (*in) || *in == '\\')
        *out++ = '\\';
    *out++ = *in++;
}

return out;
}

/* Define the MAKEFLAGS and MFLAGS variables to reflect the settings of the
   command switches. Include options with args if ALL is nonzero.
   Don't include options with the 'no_makefile' flag set if MAKEFILE. */

static struct variable *
define_makeflags (int all, int makefile)
{
    const char ref[] = "$(MAKEOVERRIDES)";
    const char posixref[] = "$(-*-command-variables-*-)";
    const char evalref[] = "$(-*-eval-flags-*-)";
    const struct command_switch *cs;
    char *flagstring;
    char *p;

    /* We will construct a linked list of 'struct flag's describing
       all the flags which need to go in MAKEFLAGS. Then, once we
       know how many there are and their lengths, we can put them all
       together in a string. */

    struct flag
    {
        struct flag *next;
        const struct command_switch *cs;
        const char *arg;
    };
    struct flag *flags = 0;
    struct flag *last = 0;
    unsigned int flagslen = 0;
#define ADD_FLAG(ARG, LEN) \
do { \
    struct flag *new = alloca (sizeof (struct flag)); \
    new->cs = cs; \
    new->arg = (ARG); \
    new->next = 0; \
    if (! flags) \
        flags = new; \
    else \
        last->next = new; \
} while (0)

```



```

last = new;
if (new->arg == 0)
    /* Just a single flag letter: "-x" */
    flagslen += 3;
else
    /* "-xfoo", plus space to escape "foo". */
    flagslen += 1 + 1 + 1 + (3 * (LEN));
if (!short_option (cs->c))
    /* This switch has no single-letter version, so we use the long. */
    flagslen += 2 + strlen (cs->long_name);
} while (0)

```

```

for (cs = switches; cs->c != '\0'; ++cs)
if (cs->toenv && (!makefile || !cs->no_makefile))
switch (cs->type)
{
case ignore:
    break;

case flag:
case flag_off:
    if ((!(int *) cs->value_ptr) == (cs->type == flag_off)
        && (cs->default_value == 0
            || *(int *) cs->value_ptr != *(int *) cs->default_value))
        ADD_FLAG (0, 0);
    break;

case positive_int:
    if (all)
    {
        if ((cs->default_value != 0
            && *(unsigned int *) cs->value_ptr
                == *(unsigned int *) cs->default_value))
            break;
        else if (cs->noarg_value != 0
            && *(unsigned int *) cs->value_ptr ==
                *(unsigned int *) cs->noarg_value)
            ADD_FLAG ("", 0); /* Optional value omitted; see below. */
        else
        {
            char *buf = alloca (30);
            sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
            ADD_FLAG (buf, strlen (buf));
        }
    }
    break;
}

```

```

#endif NO_FLOAT

```

```

case floating:
if (all)
{
if (cs->default_value != 0
    && (*(double *) cs->value_ptr
        == *(double *) cs->default_value))
    break;
else if (cs->noarg_value != 0
    && (*(double *) cs->value_ptr
        == *(double *) cs->noarg_value))
    ADD_FLAG ("", 0); /* Optional value omitted; see below. */
else
{
char *buf = alloca (100);
sprintf (buf, "%g", *(double *) cs->value_ptr);
ADD_FLAG (buf, strlen (buf));
}
}
break;
#endif

case string:
if (all)
{
p = *((char **)cs->value_ptr);
if (p)
    ADD_FLAG (p, strlen (p));
}
break;

case filename:
case strlist:
if (all)
{
struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
if (sl != 0)
{
unsigned int i;
for (i = 0; i < sl->idx; ++i)
    ADD_FLAG (sl->list[i], strlen (sl->list[i]));
}
}
break;

default:
abort ();
}

```

```

#undef ADD_FLAG

/* Four more for the possible "--", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING.
   We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '\0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = '-';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = ' ';
    *p++ = '-';

    /* Add the flag letter or name to the string. */
    if (short_option (flags->cs->c))
        *p++ = flags->cs->c;
    else
    {
        /* Long options require a double-dash. */
        *p++ = '-';
        strcpy (p, flags->cs->long_name);
        p += strlen (p);
    }
    /* An omitted optional argument has an ARG of "". */
    if (flags->arg && flags->arg[0] != '\0')
    {
        if (!short_option (flags->cs->c))
            /* Long options require '='. */
            *p++ = '=';
        p = quote_for_env (p, flags->arg);
    }
    flags = flags->next;
}

```

```

/* If no flags at all, get rid of the initial dash. */
if (p == &flagstring[1])
{
    flagstring[0] = '\0';
    p = flagstring;
}

/* Define MFLAGS before appending variable definitions. Omit an initial
empty dash. Since MFLAGS is not parsed for flags, there is no reason to
override any makefile redefinition. */
define_variable_cname ("MFLAGS",
    flagstring + (flagstring[0] == '-' && flagstring[1] == ' ' ? 2 : 0),
    o_env, 1);

/* Write a reference to --eval-flags--, which contains all the --eval
flag options. */
if (eval_strings)
{
    *p++ = ' ';
    memcpy (p, evalref, CSTRLEN (evalref));
    p += CSTRLEN (evalref);
}

if (all && command_variables)
{
    /* Write a reference to $(MAKEOVERRIDES), which contains all the
command-line variable definitions. Separate the variables from the
switches with a "--" arg. */

    strcpy (p, "--");
    p += 4;

    /* Copy in the string. */
    if (posix_pedantic)
    {
        memcpy (p, posixref, CSTRLEN (posixref));
        p += CSTRLEN (posixref);
    }
    else
    {
        memcpy (p, ref, CSTRLEN (ref));
        p += CSTRLEN (ref);
    }
}

/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')
    ++flagstring;

```

```

/* This used to use o_env, but that lost when a makefile defined MAKEFLAGS.
   Makefiles set MAKEFLAGS to add switches, but we still want to redefine
   its value with the full set of switches. Then we used o_file, but that
   lost when users added -e, causing a previous MAKEFLAGS env. var. to take
   precedence over the new one. Of course, an override or command
   definition will still take precedence. */
return define_variable_cname ("MAKEFLAGS", flagstring,
                             env_overrides ? o_env_override : o_file, 1);
}

/* Print version information. */

static void
print_version (void)
{
  static int printed_version = 0;

  const char *precede = print_data_base_flag ? "# " : "";

  if (printed_version)
    /* Do it only once. */
    return;

  printf ("%sGNU Make %s\n", precede, version_string);

  if (!remote_description || *remote_description == '\0')
    printf (_("%sBuilt for %s\n"), precede, make_host);
  else
    printf (_("%sBuilt for %s (%s)\n"),
           precede, make_host, remote_description);

  /* Print this untranslated. The coding standards recommend translating the
     (C) to the copyright symbol, but this string is going to change every
     year, and none of the rest of it should be translated (including the
     word "Copyright"), so it hardly seems worth it. */

  printf ("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n",
         precede);

  printf (_("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n\
%sThis is free software: you are free to change and redistribute it.\n\
%sThere is NO WARRANTY, to the extent permitted by law.\n"),
        precede, precede, precede);

  printed_version = 1;

  /* Flush stdout so the user doesn't have to wait to see the

```

```

    version information while make thinks about things. */
fflush (stdout);
}

/* Print a bunch of information about this and that. */

static void
print_data_base (void)
{
    time_t when = time ((time_t *) 0);

    print_version ();

    printf (_("\n# Make data base, printed on %s"), ctime (&when));

    print_variable_data_base ();
    print_dir_data_base ();
    print_rule_data_base ();
    print_file_data_base ();
    print_vpath_data_base ();
    strcache_print_stats ("#");

    when = time ((time_t *) 0);
    printf (_("\n# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{
    /* Sanity: have we written all our jobserver tokens back? If our
       exit status is 2 that means some kind of syntax error; we might not
       have written all our tokens so do that now. If tokens are left
       after any other error code, that's bad. */

    if (jobserver_enabled() && jobserver_tokens)
    {
        if (status != 2)
            ON (error, NILF,
                "INTERNAL: Exiting with %u jobserver tokens (should be 0)!",
                jobserver_tokens);
        else
            /* Don't write back the "free" token */
            while (--jobserver_tokens)
                jobserver_release (0);
    }

    /* Sanity: If we're the master, were all the tokens written back? */

```

```

if (master_job_slots)
{
    /* We didn't write one for ourself, so start at 1. */
    unsigned int tokens = 1 + jobserver_acquire_all ();

    if (tokens != master_job_slots)
        ONN (error, NILF,
            "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
            tokens, master_job_slots);

    reset_jobserver ();
}
}

/* Exit with STATUS, cleaning up as necessary. */

void
die (int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version ();

        /* Wait for children to die. */
        err = (status != 0);
        while (job_slots_used > 0)
            reap_children (1, err);

        /* Let the remote job module clean up its state. */
        remote_cleanup ();

        /* Remove the intermediate files. */
        remove_intermediates (0);

        if (print_data_base_flag)
            print_data_base ();

        if (verify_flag)
            verify_file_data_base ();
    }
}

```

```

clean_jobserver (status);

if (output_context)
{
/* die() might be called in a recipe output context due to an
$(error ...) function. */
output_close (output_context);

if (output_context != &make_sync)
output_close (&make_sync);

OUTPUT_UNSET ();
}

output_close (NULL);

/* Try to move back to the original directory. This is essential on
MS-DOS (where there is really only one process), and on Unix it
puts core files in the original directory instead of the -C
directory. Must wait until after remove_intermediates(), or unlinks
of relative pathnames fail. */
if (directory_before_chdir != 0)
{
/* If it fails we don't care: shut up GCC. */
int _x UNUSED;
_x = chdir (directory_before_chdir);
}
}

exit (status);
}

```

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```

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## 1.96 net-tools 1.60-26 r0

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*/
#include "config.h"

#if HAVE_AFNETROM || HAVE_HWNETROM
#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#if (__GLIBC__ > 2) || (__GLIBC__ == 2 && __GLIBC_MINOR__ >= 1)
#include <netax25/ax25.h>
#else
#include <linux/ax25.h>
#endif
#include <stdlib.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
#include "intl.h"
#include "util.h"

static char netrom_errmsg[128];

extern struct aftype netrom_aftype;

static char *NETROM_print(unsigned char *ptr)
{
    static char buff[8];
    int i;

    for (i = 0; i < 6; i++) {
        buff[i] = ((ptr[i] & 0377) >> 1);
        if (buff[i] == ' ')
            buff[i] = '\0';
    }
    buff[6] = '\0';
    i = ((ptr[6] & 0x1E) >> 1);
```

```

    if (i != 0)
    sprintf(&buff[strlen(buff)], "-%d", i);
    return (buff);
}

/* Display an AX.25 socket address. */
static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
    char buff[64];
    if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
    return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));
    return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{
    unsigned char *ptr;
    char *orig, c;
    unsigned int i;

    sap->sa_family = netrom_aftype.af;
    ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;

    /* First, scan and convert the basic callsign. */
    orig = bufp;
    i = 0;
    while ((*bufp != '\0') && (*bufp != '-') && (i < 6)) {
    c = *bufp++;
    if (islower(c))
        c = toupper(c);
    if (!(isupper(c) || isdigit(c))) {
        safe_strncpy(netrom_errmsg, _("Invalid callsign"), sizeof(netrom_errmsg));
#ifdef DEBUG
        fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
        errno = EINVAL;
        return (-1);
    }
    *ptr++ = (unsigned char) ((c << 1) & 0xFE);
    i++;
}

/* Callsign too long? */
if ((i == 6) && (*bufp != '-') && (*bufp != '\0')) {
    safe_strncpy(netrom_errmsg, _("Callsign too long"), sizeof(netrom_errmsg));
#ifdef DEBUG

```



```

fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
errno = E2BIG;
return (-1);
}
/* Nope, fill out the address bytes with blanks. */
while (i++ < sizeof(ax25_address) - 1) {
*ptr++ = (unsigned char) ((' ' << 1) & 0xFE);
}

/* See if we need to add an SSID field. */
if (*bufp == '-') {
i = atoi(++bufp);
*ptr = (unsigned char) ((i << 1) & 0xFE);
} else {
*ptr = (unsigned char) '\0';
}

/* All done. */
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): ", orig);
for (i = 0; i < sizeof(ax25_address); i++)
fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
fprintf(stderr, "\n");
#endif

return (0);
}

/* Display an error message. */
static void NETROM_herror(char *text)
{
if (text == NULL)
fprintf(stderr, "%s\n", netrom_errmsg);
else
fprintf(stderr, "%s: %s\n", text, netrom_errmsg);
}

static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
if (NETROM_input(0, bufp, sap) < 0)
return (-1);
sap->sa_family = ARPHRD_NETROM;
return (0);
}

```

```

#if 0
/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
    if (ioctl(fd, TIOCSSETD, &disc) < 0) {
        fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
        return (-errno);
    }
    return (0);
}

/* Start the KISS encapsulation on the file descriptor. */
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
        return (-1);
    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
        return (-1);
    return (0);
}
#endif

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};

#endif /* HAVE_AFNETROM */
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    Version 2, June 1991

```

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```
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## 1.101 pps-tools 1.0.2 r0



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

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# 1.103 rsync 3.1.3 r0

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# 1.105 sed 4.2.2 r0

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## 1.107 selinux-gui 2.8 r0

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## 1.110 semodule-utils 2.8 r0

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## 1.111 setools 4.1.1 r0

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## 1.112 shared-mime-info 1.10 r0

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## 1.115 update-rc-d 0.8 r0

## 1.116 which 2.21 r3

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Encoding: 169 169 102

GlifName: copyright

Width: 862

Flags: HMW

LayerCount: 2

Back

SplineSet

441 156 m 0

335 156 273 218 273 327 c 0

273 382 287 427 315 462 c 0

344 498 390 515 452 515 c 0

480 515 510 508 541 494 c 1

526 452 l 1

499 462 473 466 450 466 c 0

371 466 330 420 330 339 c 0

330 253 372 203 458 203 c 0

478 203 499 207 522 215 c 1

537 175 l 1

504 162 472 156 441 156 c 0

430 609 m 0

347 609 276 572 231 529 c 0

186 485 148 416 148 333 c 0

148 251 186 181 231 138 c 0

276 94 347 58 430 58 c 0

513 58 583 95 628 138 c 0

673 181 711 251 711 333 c 0

711 416 673 485 628 529 c 0

583 573 513 609 430 609 c 0

428 674 m 0

530 674 618 630 673 576 c 0

729 522 776 436 776 333 c 0

776 231 730 146 674 92 c 0

618 38 532 -7 430 -7 c 0

327 -7 242 38 186 92 c 0

130 146 83 230 83 333 c 0

83 435 129 521 185 575 c 0

240 629 327 674 428 674 c 0

EndSplineSet

Fore  
SplineSet  
70 344 m 3  
70 561 215 706 432 706 c 3  
648 706 792 560 792 344 c 3  
792 134 645 -10 432 -10 c 3  
216 -10 70 131 70 344 c 3  
156 348 m 3  
156 183 264 76 432 76 c 3  
602 76 709 182 709 348 c 3  
709 514 597 624 432 624 c 3  
266 624 156 514 156 348 c 3  
337 347 m 3  
337 274 376 228 450 228 c 3  
493 228 515 238 552 252 c 1  
580 189 1 1  
539 165 497 152 432 152 c 3  
314 152 241 229 241 347 c 3  
241 468 313 544 432 544 c 3  
499 544 534 530 580 508 c 1  
552 446 1 1  
544 449 546 448 528 453 c 0  
506 461 479 470 450 470 c 3  
374 470 337 423 337 347 c 3

EndSplineSet

Validated: 1

EndChar

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StartChar: copyright

Encoding: 169 169 102

GlifName: copyright



Width: 869  
Flags: HMW  
LayerCount: 2  
Back  
SplineSet  
548 524 m 2  
564 517 l 1  
537 439 l 1  
518 446 l 1  
495 454 473 458 449 458 c 0  
371 458 351 408 351 353 c 0  
351 294 372 238 455 238 c 0  
475 238 495 242 515 249 c 2  
533 255 l 1  
561 179 l 1  
543 172 l 2  
509 159 474 152 437 152 c 0  
355 152 255 195 255 343 c 0  
255 496 355 547 442 547 c 0  
479 547 515 539 548 524 c 2  
430 602 m 0  
284 602 171 484 171 347 c 0  
171 210 284 93 430 93 c 0  
576 93 688 210 688 347 c 0  
688 484 576 602 430 602 c 0  
792 347 m 3  
792 155 634 -10 430 -10 c 3  
226 -10 67 154 67 347 c 3  
67 536 223 706 430 706 c 3  
634 706 792 539 792 347 c 3  
EndSplineSet  
Fore  
SplineSet  
784 334 m 259  
784 129 638 -10 432 -10 c 3  
229 -10 85 130 85 334 c 259  
85 537 228 678 432 678 c 3  
638 678 784 540 784 334 c 259  
719 334 m 259  
719 498 600 614 436 614 c 3  
270 614 151 499 151 334 c 259  
151 170 271 57 436 57 c 3  
599 57 719 171 719 334 c 259  
281 329 m 3  
281 454 339 517 456 517 c 3  
486 517 517 511 550 497 c 1  
531 443 l 1  
506 451 482 456 458 456 c 3

385 456 349 418 349 341 c 3  
349 260 384 216 466 216 c 3  
484 216 504 221 527 229 c 1  
546 175 1 1  
513 161 480 155 448 155 c 3  
342 155 281 222 281 329 c 3  
EndSplineSet  
Validated: 1  
EndChar

# 1.120 berkeley-db 5.3.28 r1

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

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

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

3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

```
<!-- $Id$ -->
```

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

```
<xsl:stylesheet version="1.0"  
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"  
  xmlns:xi="http://www.w3.org/2001/XInclude"  
  xmlns:db="http://docbook.org/ns/docbook">  
  
  <xsl:template name="isc.copyright.format">  
    <xsl:param name="text"/>  
    <xsl:value-of select="$isc.copyright.leader"/>  
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>  
    <xsl:text>&#10;</xsl:text>  
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>  
    <xsl:if test="translate($rest, '&#9;&#32;', '')">  
      <xsl:call-template name="isc.copyright.format">  
        <xsl:with-param name="text" select="$rest"/>  
      </xsl:call-template>  
    </xsl:if>  
  </xsl:template>  
  
  <xsl:variable name="isc.copyright.text">  
    <xsl:text>  
      This Source Code Form is subject to the terms of the Mozilla Public  
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      file, You can obtain one at http://mozilla.org/MPL/2.0/.  
    </xsl:text>  
  </xsl:variable>  
  
  <xsl:variable name="isc.copyright">  
    <xsl:call-template name="isc.copyright.format">  
      <xsl:with-param name="text">  
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">  
          <xsl:text>Copyright (C) </xsl:text>  
          <xsl:call-template name="copyright.years">  
            <xsl:with-param name="years" select="year"/>  
          </xsl:call-template>  
          <xsl:text> </xsl:text>  
          <xsl:value-of select="holder"/>  
        </xsl:for-each>  
      </xsl:with-param>  
    </xsl:call-template>  
  </xsl:variable>
```

```
<xsl:value-of select="$isc.copyright.breakline"/>
<xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
</xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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## 1.122 json-c 0.13.1 r0

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## 1.123 selinux 2.8 r0

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## 1.124 Isof 4.91 r0

## 1.125 ntp 4.2.8p13 r0

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/\* -\*- Mode: Text -\*- \*/

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

```

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

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

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

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
//   sub-name = version;
//   sub-text = 's/#VERSION#/<<version>>/g';
// };
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Version 3, 29 June 2007

```

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<head>
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<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
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<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
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</head>
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<body>
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<h3>Copyright Notice</h3>
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```
 "Clone me," says Dolly sheepishly.
```

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<p>Last update:
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<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
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UTC</p>
```

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<br clear="left">
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</p>
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<hr>
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```

```

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<p>The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are
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<li><a href="mailto:%20mark_andrews@isc.org">Mark Andrews <mark_andrews@isc.org></a> Leitch atomic
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<li><a href="mailto:%20altmeier@atsoft.de">Bernd Altmeier <altmeier@atsoft.de></a> hopf Elektronik serial
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<li><a href="mailto:%20vbais@mailman1.intel.co">Viraj Bais <vbais@mailman1.intel.com></a> and <a
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```

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<li><a href="mailto:%20michael.barone@lmco.com">Michael Barone <michael,barone@lmco.com></a>  
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<li><a href="mailto:%20duwe@immd4.informatik.uni-erlangen.de">Torsten Duwe  
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<li><a href="mailto:%20Hans.Lambermont@nl.origin-it.com">Hans Lambermont <Hans.Lambermont@nl.origin-  
it.com></a> or <a href="mailto:H.Lambermont@chello.nl"><H.Lambermont@chello.nl></a> ntpswep</li>  
<li><a href="mailto:%20phk@FreeBSD.ORG">Poul-Henning Kamp <phk@FreeBSD.ORG></a> Oncore driver  
(Original author)</li>  
<li><a href="http://www4.informatik.uni-erlangen.de/%7ekardel">Frank Kardel</a> <a  
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<GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup,  
dynamic interface handling</li>

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- <li><a href="mailto:%20mogul@pa.dec.com">Jeffrey Mogul <mogul@pa.dec.com></a> ntprtrace utility</li>
- <li><a href="mailto:%20moore@fieval.daytonoh.ncr.com">Tom Moore <tmoore@fieval.daytonoh.ncr.com></a> i386 svr4 port</li>
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- <li><a href="mailto:%20mrapple@quack.kfu.com">Nick Sayer <mrapple@quack.kfu.com></a> SunOS streams modules</li>
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- <li><a href="mailto:%20ken@sdd.hp.com">Kenneth Stone <ken@sdd.hp.com></a> HP-UX port</li>
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<li><a href="mailto:%20loganaden@gmail.com">Loganaden Velvindron <loganaden@gmail.com></a>
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regensburg.de></a> corrected and validated HTML documents according to the HTML DTD</li>
</ol>
<hr>
</body>
</html>
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```

\*\*\*\*\*

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2. [2]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp

11. [12]Jean-Francois Boudreault  
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12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
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33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
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41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon



- Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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## References

1. [mailto:%20takao\\_abe@xurb.jp](mailto:%20takao_abe@xurb.jp)
2. [mailto:%20mark\\_andrews@isc.org](mailto:%20mark_andrews@isc.org)
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# 1.132 python-pretend 1.0.9 r0

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## 1.133 python-pyserial 3.4 r0

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# 1.135 shadow 4.6 r0

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---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP License. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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- \* MoreFiles
- \*
- \* A collection of File Manager and related routines

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

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

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

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

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-----

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

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

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# 1.139 util-macros 1.19.2 r0

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

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

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

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

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

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

That's all there is to it!

## 1.142 curl 7.66.0 r0

### 1.142.1 Available under license :

License Mixing

=====

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

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

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

## libcurl

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

## OpenSSL

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

## GnuTLS

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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.

## ## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## ## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## ## GNU GSS

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

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## ## OpenLDAP

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

## ## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.  
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# 1.143 libmbim 1.18.0 r0

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## 1.144 python3-pycrypto 2.6.1 r0

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#### A. HISTORY OF THE SOFTWARE

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

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

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



the PSF.

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

| Release from   | Derived   | Year      | Owner      | GPL-compatible? (1) |
|----------------|-----------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2     | 2000      | CNRI       | no                  |
| 2.0            | 1.6       | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6       | 2001      | CNRI       | no                  |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1     | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2       | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1     | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2     | 2003      | PSF        | yes                 |

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From dlitz@dlitz.net Sun Aug 2 21:48:25 2009

Date: Sun, 2 Aug 2009 21:48:25 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Paul Swartz <paulswartz@gmail.com>

Subject: PyCrypto license clarification

Message-ID: <20090803014825.GA1326@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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=====
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=====  
Regards,  
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... \_spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159

Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])

by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066

for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)

Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3

for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:from:date:message-id:subject:to:content-type

:content-transfer-encoding;

bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;

b=gyTqkRhKIHadFKIZCBWsRbnMNVdQ1PWIJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac

Vn55qllqTdom4e9zIUUE6MwZo9kqi/Qw0L/Slib0DIQeNqo/eHYqPmuVswltaYwNAyMJ

Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=

DomainKey-Signature: a=rsa-sha1; c=noFWS;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:from:date:message-id:subject:to

:content-type:content-transfer-encoding;

b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EfT6Nv6

Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPfp8AzPI3CefL

1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=  
MIME-Version: 1.0  
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,  
03 Aug 2009 09:14:03 -0700 (PDT)  
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>  
References: <20090803014825.GA1326@rivest.dlitz.net>  
From: Paul Swartz <paulswartz@gmail.com>  
Date: Mon, 3 Aug 2009 12:13:43 -0400  
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Content-Type: text/plain; charset=UTF-8  
Content-Transfer-Encoding: quoted-printable  
Status: RO  
X-Status: A  
Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:

> Hi Paul,  
>  
> I am the new maintainer of the Python Cryptography Toolkit, and I am  
> working on a new release at <http://www.pycrypto.org/>.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname  
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=  
blic  
> domain all your contributions to PyCrypto, with the following notice?  
>  
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D  
> =C2=A0The contents of this file are dedicated to the public domain. =C2=  
=A0To the  
> =C2=A0extent that dedication to the public domain is not available, every=  
one  
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=  
nse  
> =C2=A0to exercise all rights associated with the contents of this file fo=  
r  
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.  
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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Yes, that's fine. Good luck with the new release!



-P  
--=20  
Paul Swartz  
paulswartz at gmail dot com  
<http://paulswartz.net/>  
AIM: z3penguin

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009  
Date: Mon, 3 Aug 2009 14:35:01 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Paul Swartz <paulswartz@gmail.com>  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>  
References: <20090803014825.GA1326@rivest.dlitz.net>  
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1; format=flowed  
Content-Disposition: inline  
Content-Transfer-Encoding: 8bit  
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: <http://www.dlitz.net/>  
X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:  
>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:  
>> Hi Paul,  
>>  
>> I am the new maintainer of the Python Cryptography Toolkit, and I am  
>> working on a new release at <http://www.pycrypto.org/>.  
>  
>That's great!  
>  
>> I understand that you have made contributions to PyCrypto, under nickname  
>> "z3p" and/or other names. May I, on your behalf, dedicate to the public  
>> domain all your contributions to PyCrypto, with the following notice?  
>>  
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>> =====

>

>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--

Dwayne C. Litzengerger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009

Date: Sat, 18 Apr 2009 09:14:20 -0400

From: "Dwayne C. Litzengerger" <dlitz@dlitz.net>

To: Mark Moraes <moraes@computer.org>

Subject: PyCrypto license clarification

Message-ID: <20090418131419.GA14494@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am  
working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's  
GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
The text in the current LICENSE file (quoted below) is not entirely clear  
on the point of whether distributing modified versions is allowed. (It  
says "distribute and use", but not "modify".)

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(though that would be nice).

--amk

(www.amk.ca)

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzengerger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (vmmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198

Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])

by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE  
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)  
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000  
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;  
bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-  
Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;  
b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3s  
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB  
2aU=  
DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;  
s=s1024; d=yahoo.com;  
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;  
b=r6RSHFF5VzQLg+9tclxKuo4Rs4IVvXF6fdqOpQrMyRCxFeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj7  
63caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j  
eo=;  
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
X-YMail-OSG:  
FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY  
4vZSnfTT8wnCkzZNZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS  
Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X  
onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxw--  
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT  
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1  
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)  
From: M Moraes <markmoraes@yahoo.com>  
Reply-To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Status: RO  
X-Status: A  
Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,  
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>  
> Subject: PyCrypto license clarification  
> To: "Mark Moraes" <moraes@computer.org>

> Date: Saturday, April 18, 2009, 9:14 AM  
> Hi Mark,  
>  
> I am the new maintainer of the Python Cryptography Toolkit,  
> and I am  
> working on a new release at <http://www.pycrypto.org/>.  
>  
> People often ask me what license PyCrypto is covered by, if  
> it's  
> GPL-compatible, etc. Right now, I'm not really sure  
> what to tell them.  
> The text in the current LICENSE file (quoted below) is not  
> entirely clear  
> on the point of whether distributing modified versions is  
> allowed. (It  
> says "distribute and use", but not "modify".)  
>  
>  
> =====  
>     Distribute and use freely; there are  
> no restrictions on further  
>     dissemination and usage except those  
> imposed by the laws of your  
>     country of residence. This  
> software is provided "as is" without  
>     warranty of fitness for use or  
> suitability for any purpose, express  
>     or implied. Use at your own risk or  
> not at all.  
>  
> =====  
>  
>     Incorporating the code into commercial  
> products is permitted; you do  
>     not have to make source available or  
> contribute your changes back  
>     (though that would be nice).  
>  
>     --amk  
>  
>  
>     ([www.amk.ca](http://www.amk.ca))  
>  
> For the next PyCrypto release, I would like to take steps  
> to move toward a  
> clearer licensing regime. I am asking as many  
> copyright holders as I can  
> find if I can release PyCrypto under something clearer and

> more standard.  
> Below, I have quoted a public domain dedication that was  
> recommended in  
> \_Intellectual Property and Open Source: A Practical Guide  
> to Protecting  
> Code\_, by Van Lindberg. I have already contacted A.  
> M. Kuchling, Robey  
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they  
> have all  
> approved the following dedication for their contributions.  
>  
> I understand that you have made contributions to  
> PyCrypto. May I, on your  
> behalf, dedicate to the public domain all your  
> contributions to PyCrypto,  
> with the following notice?  
>  
>  
> =====  
> The contents of this file are  
> dedicated to the public domain. To the  
> extent that dedication to the public  
> domain is not available, everyone  
> is granted a worldwide, perpetual,  
> royalty-free, non-exclusive license  
> to exercise all rights associated with  
> the contents of this file for  
> any purpose whatsoever. No  
> rights are reserved.  
>  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> -- Dwayne C. Litzenger <dlitz@dlitz.net>  
> Key-signing key - 19E1  
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009  
Date: Mon, 20 Apr 2009 20:01:37 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>  
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3677

Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

>  
>Hi Dwayne.  
>  
>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.  
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>>  
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>> The text in the current LICENSE file (quoted below) is not  
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>> allowed. (It  
>> says "distribute and use", but not "modify".)  
>>  
>>  
>> =====  
>> Distribute and use freely; there are  
>> no restrictions on further  
>> dissemination and usage except those  
>> imposed by the laws of your  
>> country of residence. This  
>> software is provided "as is" without  
>> warranty of fitness for use or  
>> suitability for any purpose, express  
>> or implied. Use at your own risk or  
>> not at all.  
>>  
>> =====  
>>  
>> Incorporating the code into commercial  
>> products is permitted; you do  
>> not have to make source available or  
>> contribute your changes back  
>> (though that would be nice).  
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>> --amk  
>>  
>>  
>> (www.amk.ca)  
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>>

>>

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>> to exercise all rights associated with  
>> the contents of this file for  
>> any purpose whatsoever. No  
>> rights are reserved.

>>

>> =====

>>

>> Regards,

>> - Dwayne

>>

>> -- Dwayne C. Litzenger <dlitz@dlitz.net>

>> Key-signing key - 19E1

>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>>

>

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <dlitz@dlitz.net>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)

Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)

Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])

by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088

for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)

Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk [193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net; Thu, 28 Aug 2008 01:45:02 +0100

To: crypt@bis.doc.gov,  
enc@nsa.gov,  
web\_site@bis.doc.gov,  
pycrypto@lists.dlitz.net,  
PYTHON-CRYPTO@NIC.SURFNET.NL,  
dlitz@dlitz.net

Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailfrom; client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk; helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;

Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100

Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1]) by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1 for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)

Received: by rivest.dlitz.net (Postfix, from userid 1000) id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)

Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000); Wed, 27 Aug 2008 20:42:54 -0400

Date: Wed, 27 Aug 2008 20:42:54 -0400

Cc: post@stamper.itconsult.co.uk

Subject: PyCrypto TSU NOTIFICATION

Message-ID: <20080828004254.GA31214@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

X-Delivery-Agent: TMDA/1.1.9 (Jura)

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

X-DNSBL: 0

Status: O

Content-Length: 2182

Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

```
#####  
#  
# This is a proof of posting certificate from  
# stamper.itconsult.co.uk certifying that a user  
# claiming to be:-  
# dlitz@dlitz.net  
# requested that this message be sent to:-  
# crypt@bis.doc.gov  
# enc@nsa.gov  
# web_site@bis.doc.gov  
# pycrypto@lists.dlitz.net  
# PYTHON-CRYPTO@NIC.SURFNET.NL  
# dlitz@dlitz.net  
#  
# This certificate was issued at 00:45 (GMT)  
# on Thursday 28 August 2008 with reference 0520978  
#  
# CAUTION: while the message may well be from the sender  
# indicated in the "From:" header, the sender  
# has NOT been authenticated by this service  
#  
# For information about the Stamper service see  
# http://www.itconsult.co.uk/stamper.htm  
#  
#####
```

SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenberger  
SUBMITTED FOR: Dwayne C. Litzenberger  
POINT OF CONTACT: Dwayne C. Litzenberger  
PHONE and/or FAX: +1-613-693-1296  
MANUFACTURER: n/a  
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")  
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

---

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr  
d+q0E7eE8VtnvijUcTAR9o27yvvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t  
UNjJ/kv8QLz/aa2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq  
sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQIOhJQ6o  
XYhY+HbRjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/  
W/pqSSiPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==  
=3oIX

-----END PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hxxx.org>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzberger" <dlitz@dlitz.net>

Cc: Wim Lewis <wiml@hxxx.org>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hxxx.org>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

>

>I am the new maintainer of the Python Cryptography Toolkit, and I am  
>working on a new release at <http://www.pycrypto.org/>.

>

>I understand that you have made contributions to PyCrypto. May I, on  
>your behalf, dedicate to the public domain all your contributions to  
>PyCrypto, with the following notice?

>

> =====  
> The contents of this file are dedicated to the public domain. To the  
> extent that dedication to the public domain is not available, everyone  
> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128  
implementation, which already has a public-domain notice at the top of  
the file. But I am happy to have that, any any other code of mine that  
might have wandered in there under an unclear open sourcish license,

distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnA18UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B  
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA  
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKobx+/5+t1lJtBcZ  
wrPEa9Oui9s=  
=zSY9

-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

#### Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

- (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or
- (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
- (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
- (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of

the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008

Date: Sun, 23 Nov 2008 00:17:22 -0500

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: "A. M. Kuchling" <amk@amk.ca>

Subject: PyCrypto license clarification

Message-ID: <20081123051722.GA29253@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: multipart/signed; micalg=pgp-sha1;  
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"

Content-Disposition: inline

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);

preference=unprotected

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 3461

Lines: 78

--YiEDa0DAkWCtVeE4

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

Content-Transfer-Encoding: quoted-printable

Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's=20  
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20  
The text in the current LICENSE file (quoted below) is not entirely clear=

=20

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Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

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Regards,  
- Dwayne

--=20

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4

Content-Type: application/pgp-signature; name="signature.asc"

Content-Description: Digital signature

Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ

yloAn33a3ZjkteyJaTbzEqImOEw8JGpf

=aBEW

-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <amk@amk.ca>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id D632D10111

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (vmmailgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)

Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])

by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105

for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000

Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])

(envelope-sender <amk@amk.ca>)

by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP

for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000

Date: Sun, 23 Nov 2008 07:51:34 -0500

From: "A.M. Kuchling" <amk@amk.ca>

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Subject: Re: PyCrypto license clarification

Message-ID: <20081123125134.GA21239@amk.local>

Reply-To: amk@amk.ca



References: <20081123051722.GA29253@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>  
User-Agent: Mutt/1.5.13 (2006-08-11)  
Status: RO  
Content-Length: 537  
Lines: 15

> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
> The text in the current LICENSE file (quoted below) is not entirely clear  
> on the point of whether distributing modified versions is allowed. (It  
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable  
> contributions to PyCrypto, with the following notice?

You may.

--amk  
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009  
Date: Sat, 28 Feb 2009 23:24:14 -0500  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: Jeethu Rao <jeethurao@gmail.com>  
Subject: PyCrypto license clarification  
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am  
working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's  
GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
The text in the current LICENSE file (quoted below) is not entirely clear  
on the point of whether distributing modified versions is allowed. (It  
says "distribute and use", but not "modify".)

=====  
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.  
=====

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====  
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.  
=====

Regards,  
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <jeethurao@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9  
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB  
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)  
Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: pass (gmail.com ... \_spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in  
'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-  
from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249  
Received: from rv-out-0708.google.com (unknown [209.85.198.249])  
by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7  
for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)  
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26  
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)  
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;  
d=gmail.com; s=gamma;  
h=domainkey-signature:mime-version:received:in-reply-to:references  
:date:message-id:subject:from:to:content-type;  
bh=YWy9U32WCU/ksRqukHwaOZyJQBU4Yvt5mI20U6mI/g=;  
b=oMjI22IIXYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY  
B5E6VQuGVEyzBbNscytVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas  
L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=  
DomainKey-Signature: a=rsa-sha1; c=noaws;  
d=gmail.com; s=gamma;  
h=mime-version:in-reply-to:references:date:message-id:subject:from:to  
:content-type;  
b=Ym7CStuDEfJKay1AJyWzkZmJA1lnTcwCG6akBHAXLld8ht6PFcmIsffzZG8hJCIVJ8  
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p  
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=  
MIME-Version: 1.0  
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;  
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)  
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>  
References: <20090301042414.GA15122@rivest.dlitz.net>  
Date: Mon, 9 Mar 2009 02:57:54 +0530  
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>  
Subject: Re: PyCrypto license clarification  
From: Jeethu Rao <jeethurao@gmail.com>  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054  
Status: RO  
Content-Length: 7668  
  
--000e0cd209d0e5a3d40464a23054  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often,  
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> Hi Jeethu,

>

> I am the new maintainer of the Python Cryptography Toolkit, and I am  
> working on a new release at <http://www.pycrypto.org/>.

>

> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The  
> text in the current LICENSE file (quoted below) is not entirely clear on the  
> point of whether distributing modified versions is allowed. (It says  
> "distribute and use", but not "modify".)

>

> =====

> Distribute and use freely; there are no restrictions on further  
> dissemination and usage except those imposed by the laws of your  
> country of residence. This software is provided "as is" without  
> warranty of fitness for use or suitability for any purpose, express  
> or implied. Use at your own risk or not at all.

> =====

>

> Incorporating the code into commercial products is permitted; you do  
> not have to make source available or contribute your changes back  
> (though that would be nice).

>

> --amk (www.amk.ca)

>

> For the next PyCrypto release, I would like to take steps to move toward a  
> clearer licensing regime. I am asking as many copyright holders as I can  
> find if I can release PyCrypto under something clearer and more standard.  
> Below, I have quoted a public domain dedication that was recommended in  
> Intellectual Property and Open Source: A Practical Guide to Protecting  
> Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey  
> Pointer, and Wim Lewis, and they have all approved the following text for  
> their contributions.

>

> I understand that you have made contributions to PyCrypto. May I, on your  
> behalf, dedicate to the public domain all your contributions to PyCrypto,  
> with the following notice?

>  
> =====  
> The contents of this file are dedicated to the public domain. To the  
> extent that dedication to the public domain is not available, everyone  
> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzengerger <dlitz@dlitz.net>  
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

--  
Jeethu Rao

--000e0cd209d0e5a3d40464a23054  
Content-Type: text/html; charset=ISO-8859-1  
Content-Transfer-Encoding: quoted-printable

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I'd be fine with the public domain license for PyCrypto.  
Jeethu Rao  
PS: Apologies for the delay in my response.  
I don't really check this email address all that often, please direct any further correspondence to <a href="mailto:jeethu@jeethu-rao.com">jeethu@jeethu-rao.com</a>  
On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzengerger <span dir="ltr"><a href="mailto:dlitz@dlitz.net">dlitz@dlitz.net</a></span> wrote:  
<blockquote class="gmail\_quote" style="margin:0 0 0 .8ex;border-left:1px solid black;padding-left: 1ex;">Hi Jeethu,  
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <a href="http://www.pycrypto.org/" target="\_blank">http://www.pycrypto.org/</a>.  
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)  
</blockquote>

<br>  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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Distribute and use freely; there are no restrictions on further<br>  
dissemination and usage except those imposed by the laws of your<br>  
country of residence. =A0This software is provided "as is" withou=  
t<br>

warranty of fitness for use or suitability for any purpose, express<br>  
or implied. Use at your own risk or not at all.<br>  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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<br>  
Incorporating the code into commercial products is permitted; you do<br>  
not have to make source available or contribute your changes back<br>  
(though that would be nice).<br>

<br>  
--amk =A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=  
=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0=A0(A href=3D"http://www.amk.ca" target=3D=  
"\_blank">www.amk.ca</a><br>

<br>  
For the next PyCrypto release, I would like to take steps to move toward a =  
clearer licensing regime. =A0I am asking as many copyright holders as I can=  
find if I can release PyCrypto under something clearer and more standard. =  
=A0Below, I have quoted a public domain dedication that was recommended in =  
\_Intellectual Property and Open Source: A Practical Guide to Protecting Cod=  
e\_, by Van Lindberg. =A0I have already contacted A. M. Kuchling, Robey Poin=  
ter, and Wim Lewis, and they have all approved the following text for their=  
contributions.<br>

<br>  
I understand that you have made contributions to PyCrypto. =A0May I, on you=  
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with the following notice?<br>

<br>  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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The contents of this file are dedicated to the public domain. =A0To the<br>  
extent that dedication to the public domain is not available, everyone<br>  
is granted a worldwide, perpetual, royalty-free, non-exclusive license<br>  
to exercise all rights associated with the contents of this file for<br>  
any purpose whatsoever. =A0No rights are reserved.<br>

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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<br>  
Regards,<br>  
- Dwayne<br><font color=3D"#888888">  
<br>  
-- <br>  
Dwayne C. Litzenger <<a href=3D"mailto:dlitz@dlitz.net" target=3D"\_bl=  
ank">dlitz@dlitz.net</a>><br>  
=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A0A24 928C EC1=  
3 39C2 5CF7<br>  
</font></blockquote></div><br><br clear=3D"all"><br>-- <br>Jeethu Rao<br>  
</div></div>

--000e0cd209d0e5a3d40464a23054--

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see [LEGAL/copy/LICENSE.orig](#)).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.  
No rights are reserved.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification

Message-ID: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2553

Hi Joris,



I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May 5 03:08:32 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 2315B40583

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)

Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])

(envelope-sender <joris@bontje.nl>)

by 10.170.1.96 (qmail-ldap-1.03) with SMTP

for <>; 5 May 2009 07:08:25 -0000

Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)

id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)

Received: from firewall66.interaccess.nl (firewall66.interaccess.nl

[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;

Tue, 05 May 2009 09:08:25 +0200

Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

Date: Tue, 05 May 2009 09:08:25 +0200

From: joris@bontje.nl

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Subject: Re: PyCrypto license clarification

References: <20090505024914.GA9219@rivest.dlitz.net>

In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset=ISO-8859-1;

format="flowed"

Content-Disposition: inline

Content-Transfer-Encoding: 7bit

User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)

Status: RO

X-Status: A

Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=====  
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.  
=====

Regards,  
Joris

Citeren "Dwayne C. Litzenger" <dlitz@dlitz.net>:

> Hi Joris,  
>  
> I am the new maintainer of the Python Cryptography Toolkit, and I am  
> working on a new release at <http://www.pycrypto.org/>.  
>  
> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
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> =====  
> Distribute and use freely; there are no restrictions on further  
> dissemination and usage except those imposed by the laws of your  
> country of residence. This software is provided "as is" without  
> warranty of fitness for use or suitability for any purpose, express  
> or implied. Use at your own risk or not at all.  
> =====

>  
> Incorporating the code into commercial products is permitted; you do  
> not have to make source available or contribute your changes back  
> (though that would be nice).

>  
> --amk (www.amk.ca)

>  
> For the next PyCrypto release, I would like to take steps to move toward a  
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>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzengerger <dlitz@dlitz.net>  
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009  
Date: Tue, 5 May 2009 17:53:47 -0400  
From: "Dwayne C. Litzengerger" <dlitz@dlitz.net>  
To: joris@bontje.nl  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>  
References: <20090505024914.GA9219@rivest.dlitz.net>  
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected

X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,

>

> Thanks for taking over the PyCrypto library and putting in the required  
> effort to keep this going.

> I was very excited to read that it is now one of the installed libraries  
> for Google AppsEngine!

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> =====

>

>

> Regards,

> Joris

>

> Citeren "Dwayne C. Litzberger" <dlitz@dlitz.net>:

>

>> Hi Joris,

>>

>> I am the new maintainer of the Python Cryptography Toolkit, and I am  
>> working on a new release at <http://www.pycrypto.org/>.

>>

>> People often ask me what license PyCrypto is covered by, if it's  
>> GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
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>> =====

>> Distribute and use freely; there are no restrictions on further  
>> dissemination and usage except those imposed by the laws of your  
>> country of residence. This software is provided "as is" without

>> warranty of fitness for use or suitability for any purpose, express  
>> or implied. Use at your own risk or not at all.  
>> =====  
>>  
>> Incorporating the code into commercial products is permitted; you do  
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>> =====  
>>  
>> Regards,  
>> - Dwayne  
>>  
>> --  
>> Dwayne C. Litzenger <dlitz@dlitz.net>  
>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>  
>  
  
--  
Dwayne C. Litzenger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45  
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009  
Date: Sat, 28 Feb 2009 21:45:09 -0500  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Barry A Warsaw <barry@python.org>

Subject: PyCrypto license clarification  
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.  
=====

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=====

Regards,  
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <barry@python.org>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)

Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230

Received: from mail.wooz.org (216-15-33-230.c3-0.slv-ubr2.lnh-slv.md.static.cable.rcn.com [216.15.33.230])

by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073

for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)

Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])

by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F

for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)

Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>

From: Barry Warsaw <barry@python.org>

To: Dwayne C. Litzenger <dlitz@dlitz.net>

In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>

Content-Type: text/plain; charset=US-ASCII; format=flowed; delpsp=yes

Content-Transfer-Encoding: quoted-printable

Mime-Version: 1.0 (Apple Message framework v930.3)

Subject: Re: PyCrypto license clarification

Date: Mon, 2 Mar 2009 11:29:34 -0500

References: <20090301024509.GA13195@rivest.dlitz.net>

X-Pgp-Agent: GPGMail d55 (v55, Leopard)

X-Mailer: Apple Mail (2.930.3)

Status: RO



Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=  
> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20  
> on your behalf, dedicate to the public domain all your contributions =20=  
  
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,  
Barry

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk  
evkJnSJQAcVHIZnVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9IIet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GEXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7  
SK4w9VBJtfY=3D  
=3DQduY

-----END PGP SIGNATURE-----

Date: Mon, 16 Feb 2009 12:58:00 -0800

From: Robey Pointer <[robey@lag.net](mailto:robey@lag.net)>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <[dlitz@dlitz.net](mailto:dlitz@dlitz.net)>

Received-SPF: pass (goedel.dlitz.net: domain of [robey@lag.net](mailto:robey@lag.net) designates 69.61.78.186 as permitted sender)

Message-Id: <[F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net](mailto:F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net)>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenger wrote:

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> toward a clearer licensing regime. I am asking as many copyright

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>  
> =

> =====

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ  
SH8AoLJgaq1Ili7/ZYDc+/Cd8VO0xLbr

=Mv6g

-----END PGP SIGNATURE-----

00INDEX This file

LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit

LICENSE.libtom LICENSE file from LibTomCrypt

stmts/ Statements by contributors

## 1.145 python3-pyudev 0.21.0 r0

## 1.145.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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

### Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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# 1.146 tcpdump 4.9.3 r0

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# 1.147 zlib 1.2.8

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

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\*/

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# 1.148 cpio 2.12

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Version 3, 29 June 2007

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```

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```
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```

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```

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Version 3, 29 June 2007

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

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

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: doc/html/NCURSES-Programming-HOWTO.html

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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](mailto:dickey@invisible-island.net)>

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## 1.161 attr 2.4.47

### 1.161.1 Available under license :

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=====

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

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

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

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

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

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
//   sub-name = version;
```

```
// sub-text = 's/#VERSION#/<<version>>/g';  
// };  
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Version 3, 29 June 2007
```

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```

```
<html>
```

```
<head>
```

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

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

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

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

```
</head>
```

```
<body>
```

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

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

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

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

```
UTC</p>
```

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

```
</p>
```

```
<hr>
```

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<pre>
```

```
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```

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```

```
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```

```
</pre>
```

```
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```
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```
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</pre>

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<li><a href="mailto:%20altmeier@atsoft.de">Bernd Altmeier &lt;altmeier@atsoft.de&gt;</a> hopf Elektronik serial line and PCI-bus devices</li>

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<li><a href="mailto:%20michael.barone@lmco.com">Michael Barone &lt;michael,barone@lmco.com&gt;</a> GPSVME fixes</li>

<li><a href="mailto:%20karl@owl.HQ.ileaf.com">Karl Berry &lt;karl@owl.HQ.ileaf.com&gt;</a> syslog to file option</li>

<li><a href="mailto:%20greg.brackley@bigfoot.com">Greg Brackley &lt;greg.brackley@bigfoot.com&gt;</a> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.</li>

<li><a href="mailto:%20Marc.Brett@westgeo.com">Marc Brett &lt;Marc.Brett@westgeo.com&gt;</a> Magnavox GPS clock driver</li>

<li><a href="mailto:%20Piete.Brooks@cl.cam.ac.uk">Piete Brooks &lt;Piete.Brooks@cl.cam.ac.uk&gt;</a> MSF clock driver, Trimble PARSE support</li>

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- <li><a href="mailto:%20clift@ml.csiro.au">Steve Clift &lt;clift@ml.csiro.au&gt;</a> OMEGA clock driver</li>
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- <li><a href="mailto:%20duwe@immd4.informatik.uni-erlangen.de">Torsten Duwe &lt;duwe@immd4.informatik.uni-erlangen.de&gt;</a> Linux port</li>
- <li><a href="mailto:%20dennis@mrbill.canet.ca">Dennis Ferguson &lt;dennis@mrbill.canet.ca&gt;</a> foundation code for NTP Version 2 as specified in RFC-1119</li>
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- <li><a href="mailto:%20Hans.Lambermont@nl.origin-it.com">Hans Lambermont &lt;Hans.Lambermont@nl.origin-it.com&gt;</a> or <a href="mailto:H.Lambermont@chello.nl">&lt;H.Lambermont@chello.nl&gt;</a> ntp sweep</li>
- <li><a href="mailto:%20phk@FreeBSD.ORG">Poul-Henning Kamp &lt;phk@FreeBSD.ORG&gt;</a> Oncore driver (Original author)</li>
- <li><a href="http://www4.informatik.uni-erlangen.de/%7ekardel">Frank Kardel</a> <a href="mailto:%20kardel%20%28at%29%20ntp%20%28dot%29%20org">&lt;kardel (at) ntp (dot) org&gt;</a> PARSE &lt;GENERIC&gt; (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>
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authentication</li>

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<li><a href="mailto:%20mayer@ntp.org">Danny Mayer &lt;mayer@ntp.org&gt;</a> Network I/O, Windows Port, Code Maintenance</li>

<li><a href="mailto:%20mills@udel.edu">David L. Mills &lt;mills@udel.edu&gt;</a> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36</li>

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<li><a href="mailto:%20mrapple@quack.kfu.com">Nick Sayer &lt;mrapple@quack.kfu.com&gt;</a> SunOS streams modules</li>

<li><a href="mailto:%20jack@innovativeinternet.com">Jack Sasportas &lt;jack@innovativeinternet.com&gt;</a> Saved a Lot of space on the stuff in the html/pic/ subdirectory</li>

<li><a href="mailto:%20schnittz@unipress.com">Ray Schnitzler &lt;schnittz@unipress.com&gt;</a> Unixware1 port</li>

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<li><a href="mailto:%20ken@sdd.hp.com">Kenneth Stone &lt;ken@sdd.hp.com&gt;</a> HP-UX port</li>

<li><a href="mailto:%20ajit@ee.udel.edu">Ajit Thyagarajan &lt;ajit@ee.udel.edu&gt;</a> IP multicast/anycast support</li>

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<li><a href="mailto:%20brian.utterback@oracle.com">Brian Utterback &lt;brian.utterback@oracle.com&gt;</a> General codebase, Solaris issues</li>

<li><a href="mailto:%20loganaden@gmail.com">Loganaden Velvindron &lt;loganaden@gmail.com&gt;</a> Sandboxing (libseccomp) support</li>

<li><a href="mailto:%20vixie@vix.com">Paul A Vixie &lt;vixie@vix.com&gt;</a> TrueTime GPS driver, generic TrueTime clock driver</li>

<li><a href="mailto:%20Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl &lt;Ulrich.Windl@rz.uni-

regensburg.de&gt;</a> corrected and validated HTML documents according to the HTML DTD</li>  
</ol>  
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</body>  
</html>

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```
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```

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```
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## 1.170 apk-tools 2.10.4-r3

### 1.170.1 Available under license :

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```
/* add.c - Alpine Package Keeper (APK)
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*/
```

Found in path(s):

\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/add.c

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```

Found in path(s):

\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/fetch.3

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```
/* commit.c - Alpine Package Keeper (APK)
* Apply solver calculated changes to database.
*
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```

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\* \$FreeBSD: fetch.c,v 1.41 2007/12/19 00:26:36 des Exp \$  
\*/

Found in path(s):

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\* Up- and down-propagating, forwarding checking, deductive dependency solver.  
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/\* apk\_io.h - Alpine Package Keeper (APK)

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```
/* implemented as luaL_typerror until lua 5.1, dropped in 5.2
```

```
* (C) 1994-2012 Lua.org, PUC-Rio. MIT license
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/luaplugin.c
```

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```
/* archive.c - Alpine Package Keeper (APK)
```

```
*
```

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```

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```
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```
/* audit.c - Alpine Package Keeper (APK)
```

```
*
```

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Found in path(s):

```
* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/audit.c
```

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```
/* fix.c - Alpine Package Keeper (APK)
```

```
*
```

```
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```

```
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```

```
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```

```
*
```

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\* \$FreeBSD: ftp.c,v 1.101 2008/01/23 20:57:59 des Exp \$  
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Found in path(s):

\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/ftp.c

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Found in path(s):

\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/http.c

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\* \$FreeBSD: common.h,v 1.30 2007/12/18 11:03:07 des Exp \$

\*/

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\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/common.h

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```
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```

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/dot.c
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```

```
/* url.c - Alpine Package Keeper (APK)
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*/
```

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/url.c
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```

```
/* policy.c - Alpine Package Keeper (APK)
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Found in path(s):

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```

```
/* apk_defines.c - Alpine Package Keeper (APK)
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\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk\_defines.h  
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/\* hash.c - Alpine Package Keeper (APK)

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/\* info.c - Alpine Package Keeper (APK)

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\* \$FreeBSD: file.c,v 1.18 2007/12/14 10:26:58 des Exp \$  
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\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/file.c  
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```
*  
* $FreeBSD: fetch.h,v 1.26 2004/09/21 18:35:20 des Exp $  
*/
```

Found in path(s):

```
* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/fetch.h
```

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```
/* apk_package.h - Alpine Package Keeper (APK)
```

```
*
```

```
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```

```
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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_package.h
```

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```
/* md5.h - Compute MD5 checksum of files or strings according to the
```

```
* definition of MD5 in RFC 1321 from April 1992.
```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/md5.h
```

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```
/* del.c - Alpine Package Keeper (APK)
```

```
*
```

```
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*/
```

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/del.c
No license file was found, but licenses were detected in source scan.
```

```
/* upgrade.c - Alpine Package Keeper (APK)
```

```
*
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*/
```

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/upgrade.c
No license file was found, but licenses were detected in source scan.
```

```
/* index.c - Alpine Package Keeper (APK)
```

```
*
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```

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/index.c
No license file was found, but licenses were detected in source scan.
```

```
/* verify.c - Alpine Package Keeper (APK)
```

```
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*
```

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/\* package.c - Alpine Package Keeper (APK)

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\*/

Found in path(s):

\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/print.c  
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/\* stats.c - Alpine Package Keeper (APK)

\*

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/\* manifest.c - Alpine Package Keeper (APK)

\*

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/\* apk\_archive.c - Alpine Package Keeper (APK)

\*

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Found in path(s):

\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk\_archive.h  
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```
/* apk_database.h - Alpine Package Keeper (APK)
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*/
```

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\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk\_database.h  
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```
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```

Found in path(s):

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```
/* ver.c - Alpine Package Keeper (APK)
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*/
```

Found in path(s):

\* /opt/cola/permits/1006906399\_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/ver.c  
No license file was found, but licenses were detected in source scan.

```
/* gunzip.c - Alpine Package Keeper (APK)
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*/
```

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/gunzip.c
```

## 1.171 zlib 1.2.11-r3

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## 1.172 libtls-standalone 2.9.1-r0

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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  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtislav  
Coleman, Chris  
Corzine, Deven T.

Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul

Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Mallayya, Sangamesh  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieuwma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan

Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John



The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
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Rasmussen, Sebastian  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
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Taniguchi, Yasuaki  
Tomat, Fbio

r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

# 1.174 e2fsprogs 1.45.3

## 1.174.1 Available under license :

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

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

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files of the EXT2 file system utilities. The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card  
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This package was added to the e2fsprogs debian source package by  
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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\*/

Index: tdbsa/tdb.c

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--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell           2005
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Theodore Ts'o  
23-June-2007

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

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

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

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

<http://sourceforge.net/projects/e2fsprogs>

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

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#

# This is a Makefile stub which handles the creation of BSD shared



```

# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

```

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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# 1.175 webcolors 1.8.1

## 1.175.1 Available under license :

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# The original version for gzip was written by Paul Eggert.

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## 1.178 libidn 1.35

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## 1.180 libcap 2.27

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## 1.182 systemd-bootchart

### 233+gitAUTOINC+fe1c5e41e6 r0

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Gocheck - A rich testing framework for Go

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1.1.0+git27ecc97192df1bf053a22b04463f2b51

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Lewis Marshall <lewis@flynn.io> (github: lmars)

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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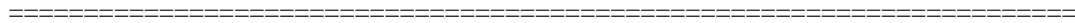
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limitations under the License.  
procfs provides functions to retrieve system, kernel and process  
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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Version 2.1, February 1999

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## 1.189 go-logrus

**0.11.0+gitd26492970760ca5d33129d2d799e34  
be5c4782eb r0**

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# 1.190 cJSON 1.7.10+gitAUTOINC+c69134d017

## r0

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Also thanks to all the people who reported bugs and suggested new features.  
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## 1.191 go-patricia

## 2.2.6+gitAUTOINC+666120de43 r0

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# 1.192 go-capability

0.0+gitAUTOINC+2c00daeb6c r0

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# 1.193 go-systemd

4+gitb4a58d95188dd092ae20072bac14cece0e  
67c388 r0

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## 1.197 bluez-tools

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**921d2e945e2 r0**

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```

package spec

```
// License information for the exposed API.  
//  
// For more information: http://goo.gl/8us55a#licenseObject  
type License struct {  
    Name string `json:"name,omitempty"`  
    URL string `json:"url,omitempty"`  
}
```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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## 1.199 go-connections

### 0.2.1+gitAUTOINC+4ccf312bf1 r0

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```
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 */w
```

## 1.202 go-dbus

4.0.0+git5f6efc7ef2759c81b7ba876593971bfce

311eab3 r0

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### 1.2.11+git836bfd95fecc0f1511dd66bdbf2b5b6 1ab8b00b6 r0

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## 1.204 libvorbis 1.3.6

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## 1.205 libuv 1.32.0

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

```
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
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along with this program. If not, see <http://www.gnu.org/licenses/>.
```

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

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

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

This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

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

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

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## 1.213 iconv 2.30

### 1.213.1 Available under license :

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Version 2, June 1991

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

#### Preamble

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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.

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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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.)

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

4. You may copy and distribute the Library (or a portion or



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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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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and

modification follow.

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### 1. Source Code.

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



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

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## 1.217 pathlib 2.3.5

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# 1.219 cracklib 2.9.5

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[Cracklib-devel] cracklib license

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

Attachments: Message as HTML

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

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

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

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

> From: cracklib-devel-bounces@li...

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

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

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

> -mike

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

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

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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=  
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change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
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library to dictact to application writes what license they should be using.=  
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thus LGPL-2.1 enters to fill this void.  
=20  
=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  
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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

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

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

> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license  
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> 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

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

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

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

>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
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> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

>

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

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

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

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

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

-mike

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

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

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

Happy now? :-)

-a



# 1.220 tcp-wrappers 7.6 r10

## 1.220.1 Available under license :

```
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 *
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 * merchantability and fitness for any particular purpose.
 */
<OWNER> = Regents of the University of California
<ORGANIZATION> = University of California, Berkeley
<YEAR> = 1998
```

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```

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```
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```

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Version 3, 29 June 2007

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## 1.223 pycparser 2.19

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pycparser -- A C parser in Python

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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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```

```
<!-- $Id$ -->
```

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

```
<xsl:stylesheet version="1.0"
```



```

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

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

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

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

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

```

-->

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If such an object file uses only numerical parameters, data

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## 1.227 elfutils 0.178

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# 1.231 libcx 7.1.0 r0

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```
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.
```

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
```

br label %CF246

```
CF246:                                ; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248
```

```
CF248:                                ; preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}
```

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```
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts
```

; The two loads based on %struct.0, loading two different data types  
; cause LSR to assume type "void" for the memory type. This would then  
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8\*, i8, %union.anon.0 }

%union.anon.0 = type { i8\* }

define hidden fastcc void @fred() unnamed\_addr #0 {

entry:

br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry

br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph

%lsrc.iv = phi %struct.0\* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]

switch i32 undef, label %exit [

i32 1, label %sw.bb.i

i32 2, label %sw.bb3.i

]

sw.bb.i: ; preds = %while.body

unreachable

sw.bb3.i: ; preds = %while.body

unreachable

exit: ; preds = %while.body

switch i32 undef, label %exit.2 [

i32 1, label %sw.bb.i17

i32 2, label %sw.bb3.i20

]

sw.bb.i17: ; preds = %exit

%0 = bitcast %struct.0\* %lsrc.iv to i32\*

%1 = load i32, i32\* %0, align 4

unreachable

sw.bb3.i20: ; preds = %exit

%2 = bitcast %struct.0\* %lsrc.iv to i8\*\*

%3 = load i8\*, i8\*\* %2, align 4

unreachable

exit.2: ; preds = %exit

%cgep22 = getelementptr %struct.0, %struct.0\* %lsrc.iv, i32 1

br label %while.body

```

while.end:                                ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>

```

```
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
```

---

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add\_lldb\_library(lldbPluginObjectContainerBSDArchive PLUGIN  
ObjectContainerBSDArchive.cpp

LINK\_LIBS

lldbCore

lldbHost

lldbSymbol

LINK\_COMPONENTS

Support

)

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; RUN: llc < %s -mtriple=x86\_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s  
;  
; D31946  
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.  
; Additionally ensure that the output code actually put fp128 values in SSE registers.

```

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK    movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK    andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000000800000000000000, %mul
    ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
}

```

```
; CHECK-NEXT retq  
}
```

# 1.232 python3-pretend 1.0.9 r0

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## 1.234 python3-iso8601 0.1.12 r0

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## 1.235 python-setuptools 41.6.0 r0

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## 1.236 compiler 7.1.0 r0

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```
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.
```

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
    %L34 = load i8, i8* %0
    %Cmp56 = icmp sgt i8 undef, %L34
    br label %CF246

CF246:                                ; preds = %CF246, %BB
    %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248
```

```
CF248:                                ; preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}
```

---

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```
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts
```

```
; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.
```

```
target triple = "hexagon"
```

```

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:
; preds = %entry
br label %while.body

while.body:
; preds = %exit.2, %while.body.lr.ph
%lshr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
i32 1, label %sw.bb.i
i32 2, label %sw.bb3.i
]

sw.bb.i:
; preds = %while.body
unreachable

sw.bb3.i:
; preds = %while.body
unreachable

exit:
; preds = %while.body
switch i32 undef, label %exit.2 [
i32 1, label %sw.bb.i17
i32 2, label %sw.bb3.i20
]

sw.bb.i17:
; preds = %exit
%0 = bitcast %struct.0* %lshr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20:
; preds = %exit
%2 = bitcast %struct.0* %lshr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2:
; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lshr.iv, i32 1
br label %while.body

while.end:
; preds = %entry
ret void
}

```

```
attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
```

---

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```
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
```

```
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {  
; CHECK-LABEL: test_sitofp_fixed:
```

```
    ; First, extend each i32 to i64  
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0  
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0  
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0  
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0  
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0  
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0  
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0  
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
```

```
    ; Next, convert each to double.  
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]  
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]  
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
```

```

; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
ret <16 x double> %res
}

```

; This one is small enough to satisfy isSimple, but still illegally large.

```
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
```

```
; CHECK-LABEL: test_sitofp_fixed_shortish:
```

```
; CHECK-DAG: scvtf.2d v0, v0
```

```
; CHECK-DAG: scvtf.2d v1, v1
```

```
; CHECK: ret
```

```
%flt = sitofp <4 x i64> %in to <4 x double>
```

```
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
```

```
ret <4 x double> %res
```

```
}
```

```
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```

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```
add_llvm_library(llvmPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp
```

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; RUN: llc <%s -mtriple=x86\_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s  
;  
; D31946  
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.  
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)  
declare fp128 @llvm.copysign.f128(fp128, fp128)

```

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK    movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

```

```

define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK    andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

```

```

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

```

```

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000000800000000000000, %mul
    ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

```

# 1.237 python3-pyserial 3.4 r0

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## 1.239 Ixc 3.2.1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

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

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.

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Ty Coon, President of Vice
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## 1.240 glibc 2.30

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

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

For example, on rare occasions, there may be a special need to

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

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

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

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

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

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

``Source code" for a work means the preferred form of the work for

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

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

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

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

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

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

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

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

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

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

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

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

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## 1.243 libvirt 4.7.0

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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Version 3, 29 June 2007

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# 1.249 glib 2.60.7

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include/bsd/sys/queue.h  
include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
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man/heapsort.3bsd  
man/nlist.3bsd  
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man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
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man/pidfile.3bsd  
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man/strlcpy.3bsd

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src/arc4random.c

src/arc4random\_linux.h



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src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/arc4random\_win.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
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## 1.254 libnettle6 3.5.1

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# 1.258 gnutls 3.6.13

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#####  
## Constant-time SSSE3 AES core implementation.  
## version 0.1

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### 1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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```
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## 1.259 gevent 1.4.0

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gevent/libuv/\_corecffi\_source.c  
gevent/libuv/\_corecffi\_cdef.c

Originally based on code from <https://github.com/veege/guv>

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# 1.260 lighttpd 1.4.52

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# 1.261 python 3.7.8

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

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

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

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

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

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```
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.
```

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246
```

```
CF246:                                ; preds = %CF246, %BB
  %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248
```

```
CF248:                                ; preds = %CF248, %CF246
  store i8 %S1163, i8* %0
  br label %CF248
}
```

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```
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts
```

```
; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.
```

```
target triple = "hexagon"
```

```
%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }
```

```
define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph
```

```
while.body.lr.ph:                ; preds = %entry
br label %while.body
```

```
while.body:                        ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
  i32 1, label %sw.bb.i
  i32 2, label %sw.bb3.i
]
```

```
sw.bb.i:                            ; preds = %while.body
unreachable
```

```
sw.bb3.i:                            ; preds = %while.body
unreachable
```

```

exit:                                ; preds = %while.body
switch i32 undef, label %exit.2 [
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]

```

```

sw.bb.i17:                            ; preds = %.exit
%0 = bitcast %struct.0* %lshr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

```

```

sw.bb3.i20:                           ; preds = %exit
%2 = bitcast %struct.0* %lshr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

```

```

exit.2:                               ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lshr.iv, i32 1
br label %while.body

```

```

while.end:                             ; preds = %entry
ret void
}

```

```

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

```

```

=====
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```

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```

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```

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```
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
```

```
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {  
; CHECK-LABEL: test_sitofp_fixed:
```

```
    ; First, extend each i32 to i64
```

```
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
```

```
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
```

```
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
```

```
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
```

```
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
```

```
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
```

```
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
```

```
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
```

```
    ; Next, convert each to double.
```

```
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
```

```
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
```

```
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
```

```
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
```

```
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
```

```
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
```

```
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
```

```
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
```

```
    ; CHECK: ret
```

```
    %flt = sitofp <16 x i32> %in to <16 x double>
```

```
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,  
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,  
double 64.0>
```

```
    ret <16 x double> %res
```

```
    }
```

```
    ; This one is small enough to satisfy isSimple, but still illegally large.
```

```
    define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
```

```
    ; CHECK-LABEL: test_sitofp_fixed_shortish:
```

```
    ; CHECK-DAG: scvtf.2d v0, v0
```

```
    ; CHECK-DAG: scvtf.2d v1, v1
```

```
    ; CHECK: ret
```

```
    %flt = sitofp <4 x i64> %in to <4 x double>
```

```
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
```

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```
add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp
```

```
LINK_LIBS
```

```
  lldbCore
```

```
  lldbHost
```

```
  lldbSymbol
```

```
LINK_COMPONENTS
```

```
  Support
```

```
)
```

```
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 Yixuan Qiu <yixuanq@gmail.com>  
 Yusuke Suzuki <utatane.tea@gmail.com>  
 Zbigniew Skowron <zbychs@gmail.com>  
 ; RUN: llc <%s -mtriple=x86\_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s  
 ;  
 ; D31946  
 ; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.  
 ; Additionally ensure that the output code actually put fp128 values in SSE registers.

```

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK      movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK      andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq

```

```

}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

```

## 1.263 qemu 4.1.0

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This dtc package contains two pieces of software: dtc itself, and libfdt which comprises the files in the libfdt/ subdirectory. These two pieces of software, although closely related, are quite distinct. dtc does not incorporate or rely on libfdt for its operation, nor vice versa. It is important that these two pieces of software have different license conditions.

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

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

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

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

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

**\*\*IMPORTANT\*\*** It's intended that all of libfdt as released remain permissively licensed this way. Therefore only contributions which are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>  
(principal original author of dtc and libfdt)

2 November 2007

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License-History.txt

=====

This file contains the history of license change and contributor's agreement changes.

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#### Key Dates

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\* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

#### References:

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#### Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html>

#### TianoCore Bugzilla:

[https://bugzilla.tianocore.org/show\\_bug.cgi?id=629](https://bugzilla.tianocore.org/show_bug.cgi?id=629)

\* April 9, 2019

Replace BSD 2-Clause License with BSD + Patent License removing the need for the TianoCore Contribution Agreement.

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- <https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html>
- <https://lists.01.org/pipermail/edk2-devel/2019-March/037500.html>

TianoCore Bugzilla:

- [https://bugzilla.tianocore.org/show\\_bug.cgi?id=1373](https://bugzilla.tianocore.org/show_bug.cgi?id=1373)

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-----  
 Contributions.txt: TianoCore Contribution Agreement 1.1  
 -----

=====  
 = Code Contributions =  
 =====



To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.1 The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:
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```
=====  
= Change Description / Commit Message / Patch Email =  
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message =
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
```

Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1

Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- \* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

=====  
= TianoCore Contribution Agreement 1.1 =  
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-----  
 -----

Contributions.txt: TianoCore Contribution Agreement 1.0

-----  
 =====  
 = Code Contributions =  
 =====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0 The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:
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Contributions of code put into the public domain can also be accepted.

Contributions using other licenses might be accepted, but further review will be required.

```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message ==
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary
```

```
Full-commit-message
```

```
Contributed-under: TianoCore Contribution Agreement 1.0
```

Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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-----  
Index: debug.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v  
retrieving revision 1.1  
retrieving revision 1.3  
diff -u -u -r1.1 -r1.3  
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1  
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3  
@@ -52,7 +52,11 @@  
void X86EMU\_trace\_regs (void)  
{  
    if (DEBUG\_TRACE()) {  
-    x86emu\_dump\_regs();  
+ if (M.x86.mode & (SYSMODE\_PREFIX\_DATA | SYSMODE\_PREFIX\_ADDR)) {  
+    x86emu\_dump\_xregs();  
+ } else {  
+    x86emu\_dump\_regs();  
+ }  
    }  
    if (DEBUG\_DECODE() && ! DEBUG\_DECODE\_NOPRINT()) {  
        printk("%04x:%04x ",M.x86.saved\_cs, M.x86.saved\_ip);  
@@ -185,7 +189,7 @@  
    for (i=0; i< M.x86.enc\_pos; i++) {  
        sprintf(buf1+2\*i,"%02x", fetch\_data\_byte\_abs(s,o+i));  
    }  
-    printk("%-20s",buf1);  
+    printk("%-20s ",buf1);  
}

static void print\_decoded\_instruction (void)

Index: ops2.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3

@@ -149,8 +149,69 @@

target += (s16) M.x86.R\_IP;

DECODE\_PRINTF2("%04x\n", target);

TRACE\_AND\_STEP();

- if (cond)

+ if (cond) {

    M.x86.R\_IP = (u16)target;

+ JMP\_TRACE(M.x86.saved\_cs, M.x86.saved\_ip, M.x86.R\_CS, M.x86.R\_IP, " LONG COND ");

+ }

+ DECODE\_CLEAR\_SEGOVR();

+ END\_OF\_INSTR();

+}

+

+/\*\*\*\*\*\*

+REMARKS:

+Handles opcode 0x0f,0xC8-0xCF

+\*\*\*\*\*

+s32 x86emu\_bswap(s32 reg)

+{

+ // perform the byte swap

+ s32 temp = reg;

+ reg = (temp & 0xFF000000) >> 24;

+ reg |= (temp & 0xFF0000) >> 8;

+ reg |= (temp & 0xFF00) << 8;

+ reg |= (temp & 0xFF) << 24;

+ return reg;

+}

+

+void x86emuOp2\_bswap(u8 op2)

+{

+ /\* byte swap 32 bit register \*/

+ START\_OF\_INSTR();

+ DECODE\_PRINTF("BSWAP\t");

+ switch (op2) {

+ case 0xc8:

+ DECODE\_PRINTF("EAX\n");

+ M.x86.R\_EAX = x86emu\_bswap(M.x86.R\_EAX);

+ break;

```

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

```

```
+/* 0xcb */ x86emuOp2_bswap,  
+/* 0xcc */ x86emuOp2_bswap,  
+/* 0xcd */ x86emuOp2_bswap,  
+/* 0xce */ x86emuOp2_bswap,  
+/* 0xcf */ x86emuOp2_bswap,
```

```
/* 0xd0 */ x86emuOp2_illegal_op,  
/* 0xd1 */ x86emuOp2_illegal_op,
```

Index: ops.c

```
=====
```

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

retrieving revision 1.1

diff -u -u -r1.1 ops.c

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops.c 20 Mar 2008 16:52:00 -0000

@@ -1061,7 +1061,11 @@

```
    imm = (s8)fetch_byte_imm();  
    DECODE_PRINTF2("PUSH\t%d\n", imm);  
    TRACE_AND_STEP();
```

```
- push_word(imm);
```

```
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
```

```
+   push_long(imm);
```

```
+ } else {
```

```
+   push_word(imm);
```

```
+ }
```

```
    DECODE_CLEAR_SEGOVR();
```

```
    END_OF_INSTR();
```

```
}
```

@@ -1256,8 +1260,10 @@

```
    target = (u16)(M.x86.R_IP + (s16)offset);
```

```
    DECODE_PRINTF2("%x\n", target);
```

```
    TRACE_AND_STEP();
```

```
- if (cond)
```

```
+ if (cond) {
```

```
    M.x86.R_IP = target;
```

```
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
```

```
+ }
```

```
    DECODE_CLEAR_SEGOVR();
```

```
    END_OF_INSTR();
```

```
}
```

@@ -2516,9 +2522,11 @@

```
    count = 1;
```

```
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
```

```
        /* dont care whether REPE or REPNE */
```

```
-        /* move them until CX is ZERO. */
```

```
-        count = M.x86.R_CX;
```

```
+        /* move them until (E)CX is ZERO. */
```

```
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
```

```

    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   count = M.x86.R_CX;
+   /* move them until (E)CX is ZERO. */
+   count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
}
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@

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

```

```

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

```

```

- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+   store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+   else
+     M.x86.R_CX -= 1;
+   M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+     break;
+ }
+ M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+ } else {
@@ -2783,9 +2812,11 @@
+   count = 1;
+   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+     /* dont care whether REPE or REPNE */
-     /* move them until CX is ZERO. */
-     count = M.x86.R_CX;
+     /* move them until (E)CX is ZERO. */
+     count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+     M.x86.R_CX = 0;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
+   M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+ }
+ while (count--) {
@@ -2795,6 +2826,8 @@
+   store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
+ }
+ M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+   break;
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
@@ -2817,11 +2850,16 @@
+   inc = 1;
+   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+     /* dont care whether REPE or REPNE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+       M.x86.R_AL = fetch_data_byte(M.x86.R_SI);

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4:    /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        break;
    case 5:    /* jmp far ptr ... */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;

```

M.x86.R\_CS = destval2;

Index: prim\_ops.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim\_ops.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- prim\_ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ prim\_ops.c 16 Jan 2008 14:18:15 -0000 1.3

@@ -1921,7 +1921,7 @@

void imul\_long\_direct(u32 \*res\_lo, u32\* res\_hi,u32 d, u32 s)

{

#ifdef \_\_HAS\_LONG\_LONG\_\_

- s64 res = (s64)d \* (s64)s;

+ s64 res = (s64)(s32)d \* (s64)(s32)s;

    \*res\_lo = (u32)res;

    \*res\_hi = (u32)(res >> 32);

@@ -2013,7 +2013,7 @@

void mul\_long(u32 s)

{

#ifdef \_\_HAS\_LONG\_LONG\_\_

- u64 res = (u32)M.x86.R\_EAX \* (u32)s;

+ u64 res = (u64)M.x86.R\_EAX \* s;

    M.x86.R\_EAX = (u32)res;

    M.x86.R\_EDX = (u32)(res >> 32);

@@ -2312,16 +2312,15 @@

}

if (M.x86.mode & (SYSMODE\_PREFIX\_REPE | SYSMODE\_PREFIX\_REPNE)) {

    /\* dont care whether REPE or REPNE \*/

-    /\* in until CX is ZERO. \*/

-    u32 count = ((M.x86.mode & SYSMODE\_PREFIX\_DATA) ?

+    /\* in until (E)CX is ZERO. \*/

+    u32 count = ((M.x86.mode & SYSMODE\_32BIT\_REP) ?

        M.x86.R\_ECX : M.x86.R\_CX);

-

    while (count--) {

        single\_in(size);

        M.x86.R\_DI += inc;

    }

    M.x86.R\_CX = 0;

-    if (M.x86.mode & SYSMODE\_PREFIX\_DATA) {

+    if (M.x86.mode & SYSMODE\_32BIT\_REP) {

        M.x86.R\_ECX = 0;

    }

    M.x86.mode &= ~(SYSMODE\_PREFIX\_REPE | SYSMODE\_PREFIX\_REPNE);

@@ -2355,15 +2354,15 @@

```

}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* out until CX is ZERO. */
-   u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+   /* out until (E)CX is ZERO. */
+   u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--> {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
-   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+   if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

```

Index: sys.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v

retrieving revision 1.1

retrieving revision 1.2

diff -u -u -r1.1 -r1.2

--- sys.c 7 Sep 2007 10:01:21 -0000 1.1

+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2

@@ -45,11 +45,6 @@

#include <x86emu/regs.h>

#include "debug.h"

#include "prim\_ops.h"

ifndef LINUXBIOS\_VERSION

include "io.h"

else

include <sys/io.h>

endif

ifdef IN\_MODULE

include "xf86\_ansi.h"

@@ -220,7 +215,7 @@

{

DB(if (DEBUG\_IO\_TRACE())

printk("inb %#04x \n", addr);

- return inb(addr);

+ return 0;

}

\*\*\*\*\*

@@ -235,7 +230,7 @@



```

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

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

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

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

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

- outl(val, addr);
return;
}

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

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

```

```
}
```

```
Index: include/x86emu/debug.h
```

```
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
```

```
retrieving revision 1.1
```

```
retrieving revision 1.4
```

```
diff -u -u -r1.1 -r1.4
```

```
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1
```

```
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
```

```
@@ -40,8 +40,6 @@
```

```
#ifndef __X86EMU_DEBUG_H
```

```
#define __X86EMU_DEBUG_H
```

```
 -//#define DEBUG 0
```

```
 -#undef DEBUG
```

```
 /*----- Macros and type definitions -----*/
```

```
 /* checks to be enabled for "runtime" */
```

```
 @@ -78,6 +76,8 @@
```

```
 # define DEBUG_SYSINT()      (M.x86.debug & DEBUG_SYSINT_F)
```

```
 # define DEBUG_TRACECALL()   (M.x86.debug & DEBUG_TRACECALL_F)
```

```
 # define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
```

```
 +# define DEBUG_TRACEJMP()   (M.x86.debug & DEBUG_TRACEJMP_F)
```

```
 +# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
```

```
 # define DEBUG_SYS()         (M.x86.debug & DEBUG_SYS_F)
```

```
 # define DEBUG_MEM_TRACE()   (M.x86.debug & DEBUG_MEM_TRACE_F)
```

```
 # define DEBUG_IO_TRACE()    (M.x86.debug & DEBUG_IO_TRACE_F)
```

```
 @@ -96,6 +96,8 @@
```

```
 # define DEBUG_SYSINT()      0
```

```
 # define DEBUG_TRACECALL()   0
```

```
 # define DEBUG_TRACECALLREGS() 0
```

```
 +# define DEBUG_TRACEJMP()   0
```

```
 +# define DEBUG_TRACEJMPREGS() 0
```

```
 # define DEBUG_SYS()         0
```

```
 # define DEBUG_MEM_TRACE()   0
```

```
 # define DEBUG_IO_TRACE()    0
```

```
 @@ -169,14 +171,20 @@
```

```
 x86emu_dump_regs();          \
 if (DEBUG_TRACECALL())      \
     printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
```

```
 -# define RETURN_TRACE(n,u,v)          \
```

```
 +# define RETURN_TRACE(u,v,w,x,s)     \
```

```
 if (DEBUG_TRACECALLREGS()) \
```

```
     x86emu_dump_regs();          \
```

```
 if (DEBUG_TRACECALL())      \
```

```
 - printk("%04x:%04x: %s\n",u,v,n);
```

```
 + printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
```

```
 +# define JMP_TRACE(u,v,w,x,s)          \
```

```

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

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

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

```

```
+ int          check;
  u16          saved_ip;
  u16          saved_cs;
  int          enc_pos;
```

Index: include/x86emu/x86emu.h

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1

+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3

@@ -47,6 +47,7 @@

#include <console.h>

#define printk(x...) printk(BIOS\_DEBUG, x)

#else

+#include <stdio.h>

#define printk printf

#endif

@@ -189,6 +181,8 @@

#define DEBUG\_TRACECALL\_REGS\_F 0x004000

#define DEBUG\_DECODE\_NOPRINT\_F 0x008000

#define DEBUG\_SAVE\_IP\_CS\_F 0x010000

+#define DEBUG\_TRACEJMP\_F 0x020000

+#define DEBUG\_TRACEJMP\_REGS\_F 0x040000

#define DEBUG\_SYS\_F (DEBUG\_SVC\_F|DEBUG\_FS\_F|DEBUG\_PROC\_F)

void X86EMU\_trace\_regs(void);

@@ -200,5 +194,4 @@

#ifdef \_\_cplusplus

} /\* End of "C" linkage for C++ \*/

#endif

-

#endif /\* \_\_X86EMU\_X86EMU\_H \*/

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-----

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John R. Hauser  
2018 January 20

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#### Key Dates

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\* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

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Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html>

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= Change Description / Commit Message / Patch Email =  
=====

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== Sample Change Description / Commit Message =

==== Start of sample patch email message ====

From: Contributor Name <contributor@example.com>  
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1  
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

\* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.

\* git format-patch is one way to create this format

==== Definitions for sample patch email ====

\* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.

\* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.

- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
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= Change Description / Commit Message / Patch Email =

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== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>  
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0  
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

=== Definitions for sample patch email ===

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
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John R. Hauser  
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{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },

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{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%x, %d, %d, %x, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%x,%x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %x, %d)", NULL, NULL
},
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NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %x, %d)", NULL, NULL },

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{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
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},
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NULL },
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{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\", %o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\", %o, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%x, %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\", %o, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\", %o, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d, %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\", %p, %d)", NULL, NULL },

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{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },

```

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{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },

```

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Ty Coon, President of Vice
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John R. Hauser  
2018 January 20

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## 1.264 libidn 2.2.0

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```

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## 1.265 iputils 20190709

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# 1.266 libtasn 4.14

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

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

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b) 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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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

Source: <https://github.com/lz4/lz4>

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## 1.270 libyaml 0.2.2 r0

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# 1.272 python-six 1.12.0 r0

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# Contributions to the urllib3 project

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## Contributors

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\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

- \* btoconnor <brian@btoconnor.net>
- \* Non-multipart encoding for POST requests
  
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- \* Code review, PEP8 compliance, benchmark fix
  
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- \* Corrected multipart behavior for params
  
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- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield <<https://lukasa.co.uk/about/>>

- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
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- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)

- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.

- \* Christian Pedersen <<https://github.com/chripede>>
  - \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <<https://github.com/jmoldow>>
  - \* Fix low-level exceptions leaking from ```HTTPResponse.stream()```.
  - \* Bugfix for ```ConnectionPool.urlopen(release_conn=False)```.
  - \* Creation of ```HTTPConnectionPool.ResponseCls```.
  
- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
  - \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <<https://github.com/a-tal>>
  - \* Bugfix to `ca_cert` file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
  - \* Bugfix related to `memoryview`` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
  - \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
  - \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto:nate.prewitt@gmail.com)>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ```stream``` when `amt=None`.
  - \* Added `length_remaining` to determine remaining data to be read.
  - \* Added `enforce_content_length` to raise exception when incorrect content-length received.

- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

- \* Bruce Merry <<https://www.brucemerry.org.za>>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <<https://github.com/hugovk>>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <<https://github.com/timb07>>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <<https://github.com/jbramleycl>>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
- \* Remove Authorization header regardless of case when redirecting to cross-site
  
- \* James Meickle <<https://permadeath.com/>>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto:chris.jerdonek@gmail.com)>
- \* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

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```
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```

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

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@c Set file name and title for man page.  
@setfilename gpl  
@settitle GNU General Public License  
@c man begin SEEALSO  
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@c man end  
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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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## 1.283 python-attrs 19.2.0 r0

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# 1.284 gnulib 2018-03-07.03 r0

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Files:

tests/test-update-copyright.sh

Depends-on:

configure.ac:



```
abs_aux_dir=`cd "$ac_aux_dir"; pwd`  
AC_SUBST([abs_aux_dir])
```

Makefile.am:

```
TESTS += test-update-copyright.sh  
TESTS_ENVIRONMENT += abs_aux_dir='${abs_aux_dir}'  
@c The GNU Lesser General Public License.  
@center Version 2.1, February 1999
```

```
@c This file is intended to be included within another document,  
@c hence no sectioning command or @node.
```

```
@display
```

```
Copyright @copyright{ } 1991, 1999 Free Software Foundation, Inc.  
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```

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version number 2.1.]

```
@end display
```

```
@subheading Preamble
```

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

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

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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@item

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

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

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

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@item

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

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

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

@end enumerate

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@item

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

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

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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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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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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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@smallexample

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@end smallexample

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

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Version 3, 29 June 2007

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Description:

Concatenate two arbitrary file names.

Files:

lib/filenamecat.h

lib/filenamecat-lgpl.c

m4/filenamecat.m4

Depends-on:

dirname-lgpl

configure.ac:

gl\_FILE\_NAME\_CONCAT\_LGPL

Makefile.am:

lib\_SOURCES += filenamecat-lgpl.c

Include:

"filenamecat.h"

License:

LGPLv2+

Maintainer:

Jim Meyering

\$Id: COPYING,v 1.3 2006-10-26 16:20:28 eggert Exp \$

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@end enumerate

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@end enumerate

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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.  
@end smallexample

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

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

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

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

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

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

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

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Version 3, 29 June 2007

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

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

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

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

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Files:

tests/test-canonicalize-lgpl.c

tests/signature.h

tests/null-ptr.h

tests/macros.h

Depends-on:

ignore-value

same-inode

symlink

configure.ac:

Makefile.am:

TESTS += test-canonicalize-lgpl

check\_PROGRAMS += test-canonicalize-lgpl

Description:

Provide the GNU Free Documentation License in Texinfo format.

Files:

doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:

unmodifiable license text

Maintainer:

all

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ways this can be done:

\* Assign the copyright to the Free Software Foundation.  
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\* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

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Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

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<signature of Mo Ghoul>, 1 April 1987

Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

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-----  
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[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

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[What year were you born?]

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[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written so far?]

Description:

Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:

doc/relocatable.texi

lib/relocatable.h

lib/relocatable.c

lib/relocatable.valgrind

m4/relocatable-lib.m4

Depends-on:

strdup

configure.ac:

```
gl_RELOCATABLE_LIBRARY
```

```
if test $RELOCATABLE = yes; then
```

```
  AC_LIBOBJ([relocatable])
```

```
fi
```

Makefile.am:

```
DEFS += -DNO_XMALLOC
```

Include:

```
"relocatable.h"
```

License:

GPLv2+

Maintainer:

Ben Pfaff

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Description:

Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:

lib/getcwd-lgpl.c  
m4/getcwd.m4

Depends-on:

unistd  
strdup [test \$REPLACE\_GETCWD = 1]

configure.ac:

```
gl_FUNC_GETCWD_LGPL
if test $REPLACE_GETCWD = 1; then
  AC_LIBOBJ([getcwd-lgpl])
fi
gl_UNISTD_MODULE_INDICATOR([getcwd])
```

Makefile.am:

Include:  
<unistd.h>

License:  
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Maintainer:  
Eric Blake

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Version 2, June 1991

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```
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under certain conditions; type `show c' for details.
```

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```
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```

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

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Version 2.1, February 1999

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Files:

tests/test-getcwd-lgpl.c

tests/signature.h

tests/macros.h

Depends-on:

configure.ac:

Makefile.am:

TESTS += test-getcwd-lgpl

check\_PROGRAMS += test-getcwd-lgpl

test\_getcwd\_lgpl\_LDADD = \$(LDADD) \$(LIBINTL)

Description:

Locating a program in PATH (LGPLed version).

Files:

lib/findprog.h

lib/findprog.c

lib/findprog-lgpl.c

m4/findprog.m4

m4/eaccess.m4

Depends-on:

stdbool

strdup

concat-filename

unistd

configure.ac:

gl\_FINDPROG

gl\_MODULE\_INDICATOR([findprog-lgpl])

Makefile.am:

lib\_SOURCES += findprog.h findprog.c

Include:

"findprog.h"

License:

LGPLv2+

Maintainer:

all

Description:

Extract specific portions of filenames.

Files:

lib/dirname.h  
lib/dirname-lgpl.c  
lib/basename-lgpl.c  
lib/stripslash.c  
m4/dirname.m4

Depends-on:

dosname  
double-slash-root  
malloc-posix  
stdbool

configure.ac:

gl\_DIRNAME\_LGPL

Makefile.am:

lib\_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:

"dirname.h"

License:

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Maintainer:

Jim Meyering, Eric Blake

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[Please write your email address here.]

[Please write your snail address here.]

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Description:

realpath, canonicalize\_file\_name: Provide canonical absolute file name

Files:

lib/canonicalize-lgpl.c

m4/canonicalize.m4

m4/double-slash-root.m4

Depends-on:

extensions

stdlib

nocrash

alloca-opt [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]

errno [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]

lstat [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test \$REPLACE\_CANONICALIZE\_FILE\_NAME  
= 1]

malloca [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]

memmove [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]

pathmax [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]

readlink [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test

```
$REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
```

configure.ac:

```
gl_CANONICALIZE_LGPL
if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
  AC_LIBOBJ([canonicalize-lgpl])
fi
gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])
```

Makefile.am:

Include:

<stdlib.h>

License:

LGPLv2+

Maintainer:

all

# 1.285 python3-wcwidth 0.1.7 r0

## 1.285.1 Available under license :

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# 1.286 python3-pygobject 3.34.0 r0

## 1.286.1 Available under license :

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

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

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It may happen that this requirement contradicts the license

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# 1.287 grub 2.04 r0

## 1.287.1 Available under license :

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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```
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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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## 1.297 opkg-utils 0.4.2 r0

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## 1.300 ethtool 5.2 r0

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- From Paul Chakravarti's (<https://github.com/paulchakravarti>) fork originated the idea to add support for disabling the send- and receive-file commands, and for not using the shell when executing external programs (to avoid shell escapes). See: <https://github.com/paulchakravarti/picocom-noexec>
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```

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```
## Commands to generate dependency files
```

```

GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"

```



```
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \  
| sed \"s/($*)\.o[ :]*^/1.o $@ :/g\" > $@; \  
[ -s $@ ] || rm -f $@'
```

## Versioned libraries rules

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

## Bind internal references

```
# LDflags that pkgdata will use  
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library  
BIR_DEPS=
```

```
## Remove shared library 's'  
STATIC_PREFIX_WHEN_USED =  
STATIC_PREFIX =
```

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## 1.309 coreutils 8.31 r0

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## 1.310 trace-cmd 2.8.3 r0

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## 1.311 bzip2 1.0.8 r0

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Julian Seward, jseward@acm.org  
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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# 1.312 iproute 5.2.0 r0

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## 1.314 util-linux 2.34 r0

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# 1.315 systemd 243.2 r0

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```

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

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.316 grpc 1.24.1 r0

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# 1.317 nghttp2 1.39.2 r0

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.318 bash-completion 2.9 r0

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Version 3.0, 18 August 2009

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

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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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## 1.323 python3-greenlet 0.4.15 r0

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slp\_platformselect.h  
files in platform/ directory

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## 1.324 squashfs-tools

## 4.3+gitrAUTOINC+f95864afe8 r0

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## 1.325 python-six 1.14.0 r0

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

```
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program. If not, see <http://www.gnu.org/licenses/>.
```

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

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

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

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

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

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# 1.328 libxcrypt 4.4.8 r0

## 1.328.1 Available under license :

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Version 2.1, February 1999

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

### Preamble

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

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

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

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

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

Most GNU software, including some libraries, is covered by the

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

That's all there is to it!

# 1.329 gnome-desktop-testing 2018.1 r0

## 1.329.1 Available under license :

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Version 2, June 1991

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

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide

complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free

libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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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.

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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## 1.331 python3-more-itertools 7.2.0 r0

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## 1.333 python3-pyparsing 2.4.2 r0

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## 1.336 libsodium 1.0.18 r0

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## 1.337 python-pycparser 2.19 r0

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pycparser -- A C parser in Python

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include/bsd/err.h  
include/bsd/stdlib.h  
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include/bsd/unistd.h  
src/bsd\_getopt.c  
src/err.c  
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include/bsd/sys/bitstring.h  
include/bsd/sys/queue.h  
include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/radixsort.c  
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include/bsd/stringlist.h

man/fmtcheck.3bsd

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src/fmtcheck.c

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man/getpeereid.3bsd

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src/expand\_number.c

src/hash/sha512.h

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man/readpassphrase.3bsd  
man/strncpy.3bsd  
man/strtonum.3bsd  
src/arc4random.c  
src/arc4random\_linux.h  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/arc4random\_win.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
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## 1.341 python-chardet 3.0.4 r0

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

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

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

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may



be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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## 1.343 python-zipp 0.6.0 r0

### 1.343.1 Available under license :

Copyright Jason R. Coombs

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## 1.344 audit 2.8.5 r0

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Version 2.1, February 1999

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

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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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"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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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program,

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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 Program.

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```

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Ty Coon, President of Vice
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## 1.345 python-cffi 1.12.3 r0

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# 1.346 python3-pyopenssl 19.1.0 r0

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# 1.347 gawk 5.0.1 r0

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```
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# 1.348 pango 1.44.6 r0

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# 1.349 python-cryptography-vectors 2.7 r0

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# 1.350 python3-pytz 2019.2 r0

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## 1.353 python3-ndg-httpsclient 0.5.1 r0

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## 1.355 sudo 1.8.27 r0

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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  
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Brooks, Piete  
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Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
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Edgington, Ben  
Esipovich, Marc  
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Gerraty, Simon J.  
Graber, Stephane  
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Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
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Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
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Jackson, Richard L., Jr.  
Janssen, Mark  
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Jorge, Joel Pele  
Jover, Guillem  
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Kikuchi, Ayamura  
Kadow, Kevin  
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Kienenberger, Mike  
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Komarnitsky, Alek O.  
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Kopeek, Daniel  
Kranenburg, Paul  
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Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
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MacKenzie, David J.  
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Marchionna, Michael D.  
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Martinian, Emin  
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Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff

Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
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Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
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Sieger, Nick  
Simon, Thor Lancelot  
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Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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### A. HISTORY OF THE SOFTWARE

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

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

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

Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes

3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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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:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore  
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Just configure this file as the SSLCACertificateFile.#

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## 1.367 pcre 8.43 r0

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Written by: Philip Hazel  
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# 1.368 wireshark 3.0.8 r0

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

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

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+++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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The ``source code" for a work means the preferred form of the work for

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

@item

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

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Version 2, June 1991

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Because of this blurred distinction, using the ordinary General

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

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

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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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- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

root function must still compute square roots.)

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

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

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

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

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

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

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

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

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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of these things:

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

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

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

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

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

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

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<one line to give the library's name and a brief idea of what it does.>  
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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.371 libgudev 233 r0

### 1.371.1 Available under license :

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Version 2.1, February 1999

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

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

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

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

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

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

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Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Here is a list of the main contributors to lm-sensors version 3.

\* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

\* Merlin Hughes

Original author of sensord.

\* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in  
libsensors and sensors.

\* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

\* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

## 1.374 python3-asn1crypto 1.0.1 r0

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# 1.383 libnss-nis 3.1+gitAUTOINC+062f31999b r0

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## 1.385 nmap 7.80 r0

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On all platforms, Nmap is normally linked with:

- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.

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

- o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP\_MODIFICATIONS.

<http://code.google.com/p/libdnet/>

- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library.

Distributed with Nmap in the libpcre subdirectory.

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

- o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.

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

- o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.

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

- o LIBLINEAR. Used for IPv6 OS classification.

<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>

- o libsvn. The Subversion library, used by the updater program nmap-update. <http://subversion.apache.org/>

- o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

- o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.

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- o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.

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- o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.  
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- o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.  
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- o Various X.org libraries. These were built using MacPorts.  
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## THE BASIC LIBRARY FUNCTIONS

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

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Written by: Philip Hazel

Email local part: ph10

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## 1.387 elfutils 0.178 r0

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## 1.390 numactl

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```

```
<signature of Ty Coon>, 1 April 1989
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## 1.396 keyutils 1.6 r0

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```

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# 1.400 python3-atomicwrites 1.3.0 r0

## 1.400.1 Available under license :

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## 1.401 python3-pycparser 2.20 r0

### 1.401.1 Available under license :

pycparser -- A C parser in Python

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## 1.402 python-dbus 1.2.12 r0

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

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

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

@c man end

@c man begin COPYRIGHT

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@c man end

@end ignore

@node Copying

@c man begin DESCRIPTION

@appendix GNU GENERAL PUBLIC LICENSE

@c The GNU General Public License.

@center Version 3, 29 June 2007

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@c hence no sectioning command or @node.

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```

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## 1.405 python-idna 2.8 r0

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO
```

```
* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/PKG-INFO
```

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```
"""
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
```

```
        'author_email': 'kim@cynosure.com.au',
```

```
        'license': 'BSD-like',
```

```
        'url': 'https://github.com/kjd/idna',
```

```
        'classifiers': [
```

```
            'Development Status :: 5 - Production/Stable',
```

```
            'Intended Audience :: Developers',
```

```
            'Intended Audience :: System Administrators',
```

```
            'License :: OSI Approved :: BSD License',
```

```
            'Operating System :: OS Independent',
```

```
            'Programming Language :: Python',
```

```
            'Programming Language :: Python :: 2',
```

```
            'Programming Language :: Python :: 2.7',
```

```
            'Programming Language :: Python :: 3',
```

```
            'Programming Language :: Python :: 3.4',
```

```

'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

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## 1.406 python-gevent 1.4.0 r0

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## 1.407 dtc 1.5.1 r0

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

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

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b) 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.

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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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```
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## 1.416 glib 2.60.7 r0

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Version 2.1, February 1999

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That's all there is to it!

# 1.417 mpfr 4.0.2 r0

## 1.417.1 Available under license :

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Version 3, 29 June 2007

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

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

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

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

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

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## 1.418 lxc 3.2.1 r0

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Version 2.1, February 1999

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## 1.419 fuse 2.9.9 r0

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## 1.421 libgpg-error 1.36 r0

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```
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Iperf performance test

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\* Added atomicops for AIX (POWER)  
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## 1.426 python-networkx 2.2 r0

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Ty Coon, President of Vice
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## 1.430 libgpod 1.4.1 r0

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That's all there is to it!

## 1.431 python3-certifi 2019.11.28 r0

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities  
(CA). These were automatically extracted from Mozilla's root certificates  
file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore  
can be directly used with curl / libcurl / php\_curl, or with  
an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.432 sg3-utils 1.44 r0

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10th April 2012

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# 1.433 qemu 4.1.0 r0

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```
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This is free software, and you are welcome to redistribute it  
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```

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```
# tag: General Public License text  
#
```

```
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```

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I made the decision to license libfdt in this way because I want to encourage widespread and correct usage of flattened device trees, including by proprietary or otherwise GPL-incompatible firmware or tools. Allowing libfdt to be used under the terms of the BSD license

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David Gibson <david@gibson.dropbear.id.au>

(principal original author of dtc and libfdt)

2 November 2007

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Key Dates

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\* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:

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Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html>

TianoCore Bugzilla:

[https://bugzilla.tianocore.org/show\\_bug.cgi?id=629](https://bugzilla.tianocore.org/show_bug.cgi?id=629)

\* April 9, 2019

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<https://lists.01.org/pipermail/edk2-devel/2019-March/037500.html>

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.  
For example: Contributed-under: TianoCore Contribution Agreement 1.1  
The "TianoCore Contribution Agreement" is included below in this document.
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=====  
= Change Description / Commit Message / Patch Email =  
=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>

Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1

Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

\* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.

\* git format-patch is one way to create this format

=== Definitions for sample patch email ===



- \* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- \* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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=====  
= Code Contributions =  
=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0  
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4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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Contributions using other licenses might be accepted, but further review will be required.

```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message ==
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary
```

```
Full-commit-message
```

```
Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---
```

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

```
=== End of sample patch email message ===
```

```
=== Notes for sample patch email ===
```

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

```
=== Definitions for sample patch email ===
```

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.

- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- debug.c 7 Sep 2007 10:01:21 -0000 1.1

+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3

@@ -52,7 +52,11 @@

void X86EMU\_trace\_regs (void)

```
{
    if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+       if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+           x86emu_dump_xregs();
+       } else {
+           x86emu_dump_regs();
+       }
    }
    if (DEBUG_DECODE() && !DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
        for (i=0; i< M.x86.enc_pos; i++) {
            sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
        }
-       printk("%-20s",buf1);
+       printk("%-20s ",buf1);
    }
}
```

static void print\_decoded\_instruction (void)

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=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3

@@ -149,8 +149,69 @@

```
    target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
+       M.x86.R_IP = (u16)target;
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
```

```

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

```

```

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

```

```

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

```

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```

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

```

retrieving revision 1.1

diff -u -u -r1.1 ops.c

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops.c 20 Mar 2008 16:52:00 -0000

```

@@ -1061,7 +1061,11 @@

```

```

    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-   push_word(imm);

```

```

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

```

```

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

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

```

```

-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+           val1 = fetch_data_long(M.x86.R_SI);
+           val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
+           val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
+           cmp_word((u16)val1, (u16)val2);
+       }
-       M.x86.R_CX -- 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -- 1;
+       else
+           M.x86.R_CX -- 1;
+       M.x86.R_SI += inc;
+       M.x86.R_DI += inc;
+       if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
+       if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+       if (M.x86.intr & INTR_HALTED)
+           break;
+   }
+   M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+   } else {
@@ -2741,11 +2765,16 @@
+   TRACE_AND_STEP();
+   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+           store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-           M.x86.R_CX -- 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -- 1;
+           else
+               M.x86.R_CX -- 1;
+           M.x86.R_DI += inc;
+           if (M.x86.intr & INTR_HALTED)
+               break;
+       }
+       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+   } else {
@@ -2783,9 +2812,11 @@
+   count = 1;
+   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+       /* dont care whether REPE or REPNE */

```

```

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

```

```

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

```



```

+     M.x86.R_CX -= 1;
+     M.x86.R_DI += inc;
+     if (ACCESS_FLAG(F_ZF))
+         break;      /* zero flag set means equal */
+     if (M.x86.intr & INTR_HALTED)
+         break;
+     }
+     M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+     } else {
@@ -2951,8 +3003,8 @@
+     TRACE_AND_STEP();
+     if (M.x86.mode & SYSMODE_PREFIX_REPE) {
+         /* REPE */
-         /* move them until CX is ZERO. */
-         while (M.x86.R_CX != 0) {
+         /* move them until (E)CX is ZERO. */
+         while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+             if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+                 val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+                 cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
+                 val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
+                 cmp_word(M.x86.R_AX, (u16)val);
+             }
-             M.x86.R_CX -= 1;
+             if (M.x86.mode & SYSMODE_32BIT_REP)
+                 M.x86.R_ECX -= 1;
+             else
+                 M.x86.R_CX -= 1;
+             M.x86.R_DI += inc;
+             if (ACCESS_FLAG(F_ZF) == 0)
+                 break;
+             if (M.x86.intr & INTR_HALTED)
+                 break;
+         }
+         M.x86.mode &= ~SYSMODE_PREFIX_REPE;
+     } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
+         /* REPNE */
-         /* move them until CX is ZERO. */
-         while (M.x86.R_CX != 0) {
+         /* move them until (E)CX is ZERO. */
+         while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+             if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+                 val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+                 cmp_long(M.x86.R_EAX, val);
@@ -2977,10 +3034,15 @@
+                 val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
+                 cmp_word(M.x86.R_AX, (u16)val);

```

```

    }
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break; /* zero flag set means equal */
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();

```

```

@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)

```

```

+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+  else
+    M.x86.R_CX -= 1;
+  if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
+    M.x86.R_IP = ip;
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
+    target = (u16)(M.x86.R_IP + offset);
+    DECODE_PRINTF2("%x\n", target);
+    TRACE_AND_STEP();
-  if (M.x86.R_CX == 0)
+  if (M.x86.R_CX == 0) {
+    M.x86.R_IP = target;
+  JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+  }
+  DECODE_CLEAR_SEGOVR();
+  END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
+  ip = (s16)fetch_word_imm();
+  ip += (s16)M.x86.R_IP;
+  DECODE_PRINTF2("%04x\n", ip);
+  JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
+  TRACE_AND_STEP();
+  M.x86.R_IP = (u16)ip;
+  DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
+  cs = fetch_word_imm();
+  DECODE_PRINTF2("%04x:", cs);
+  DECODE_PRINTF2("%04x\n", ip);
+  JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
+  TRACE_AND_STEP();
+  M.x86.R_IP = ip;
+  M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
+  offset = (s8)fetch_byte_imm();
+  target = (u16)(M.x86.R_IP + offset);
+  DECODE_PRINTF2("%x\n", target);
+  JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
+  TRACE_AND_STEP();
+  M.x86.R_IP = target;
+  DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
+  DECODE_PRINTF("REPNE\n");
+  TRACE_AND_STEP();
+  M.x86.mode |= SYSMODE_PREFIX_REPNE;

```

```

+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4:      /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
    case 5:      /* jmp far ptr ... */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;

```

Index: prim\_ops.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim\_ops.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- prim\_ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ prim\_ops.c 16 Jan 2008 14:18:15 -0000 1.3

@@ -1921,7 +1921,7 @@

void imul\_long\_direct(u32 \*res\_lo, u32\* res\_hi,u32 d, u32 s)

{

#ifdef \_\_HAS\_LONG\_LONG\_\_

- s64 res = (s64)d \* (s64)s;

+ s64 res = (s64)(s32)d \* (s64)(s32)s;

\*res\_lo = (u32)res;

\*res\_hi = (u32)(res >> 32);

@@ -2013,7 +2013,7 @@

void mul\_long(u32 s)

```

{
#ifdef __HAS_LONG_LONG__
-   u64 res = (u32)M.x86.R_EAX * (u32)s;
+   u64 res = (u64)M.x86.R_EAX * s;

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

```

Index: sys.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v

retrieving revision 1.1

retrieving revision 1.2

diff -u -u -r1.1 -r1.2

--- sys.c 7 Sep 2007 10:01:21 -0000 1.1

+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2

@@ -45,11 +45,6 @@

#include <x86emu/regs.h>

#include "debug.h"

#include "prim\_ops.h"

+#ifdef LINUXBIOS\_VERSION

-#include "io.h"

-#else

-#include <sys/io.h>

-#endif

#ifdef IN\_MODULE

#include "xf86\_ansi.h"

@@ -220,7 +215,7 @@

{

DB(if (DEBUG\_IO\_TRACE())

printk("inb %#04x \n", addr);

- return inb(addr);

+ return 0;

}

/\*  
\*\*\*\*\*  
\*/

@@ -235,7 +230,7 @@

{

DB(if (DEBUG\_IO\_TRACE())

printk("inw %#04x \n", addr);

- return inw(addr);

+ return 0;

}

/\*  
\*\*\*\*\*  
\*/

@@ -250,7 +245,7 @@

{

DB(if (DEBUG\_IO\_TRACE())

printk("inl %#04x \n", addr);

- return inl(addr);

+ return 0;

}

/\*  
\*\*\*\*\*  
\*/

@@ -264,7 +259,6 @@

{

DB(if (DEBUG\_IO\_TRACE())

```

    printk("outb %#02x -> %#04x \n", val, addr);
- outb(val, addr);
return;
}

```

```

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

```

```

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

```

```

- outl(val, addr);
return;
}

```

```

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

```

```

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

```

Index: include/x86emu/debug.h

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v

retrieving revision 1.1

retrieving revision 1.4

diff -u -u -r1.1 -r1.4

--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1

+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4

```

@@ -40,8 +40,6 @@

```

```

#ifndef __X86EMU_DEBUG_H

```

```

#define __X86EMU_DEBUG_H

```

```

-// #define DEBUG 0

```

```

-#undef DEBUG

```

```

/*----- Macros and type definitions -----*/

```

```

/* checks to be enabled for "runtime" */

```

```

@@ -78,6 +76,8 @@

```

```

# define DEBUG_SYSINT()      (M.x86.debug & DEBUG_SYSINT_F)

```



```

# define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT() 0
# define DEBUG_TRACECALL() 0
# define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP() 0
+# define DEBUG_TRACEJMPREGS() 0
# define DEBUG_SYS() 0
# define DEBUG_MEM_TRACE() 0
# define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
x86emu_dump_regs();
if (DEBUG_TRACECALL()
    printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS()
    x86emu_dump_regs();
if (DEBUG_TRACECALL()
-    printk("%04x:%04x: %s\n",u,v,n);
+    printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+ if (DEBUG_TRACEJMPREGS() \
+     x86emu_dump_regs(); \
+     if (DEBUG_TRACEJMP() \
+         printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4

```

```

@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS  |\
    SYSMODE_SEGOVR_SS  |\
    SYSMODE_PREFIX_DATA  |\
-   SYSMODE_PREFIX_ADDR)
+   SYSMODE_PREFIX_ADDR  |\
+   SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
    */
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
- int debug;
+ volatile int debug;
#ifdef DEBUG
- int check;
+ int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
Index: include/x86emu/x86emu.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

```

```

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

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
} /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

```

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## History

-----

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-- Wolfgang Denk

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Version 2.1, February 1999

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```
==> edk2/License-History.txt <==  
    License-History.txt  
    =====
```

This file contains the history of license change and contributor's agreement changes.

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#### Key Dates

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\* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated



with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html>

TianoCore Bugzilla:

[https://bugzilla.tianocore.org/show\\_bug.cgi?id=629](https://bugzilla.tianocore.org/show_bug.cgi?id=629)

\* April 9, 2019

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<https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html>

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Contributions.txt: TianoCore Contribution Agreement 1.1

-----

=====  
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=====

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.  
For example: Contributed-under: TianoCore Contribution Agreement 1.1  
The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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```
=====  
= Change Description / Commit Message / Patch Email =  
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message =
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>  
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary
```

```
Full-commit-message
```

```
Contributed-under: TianoCore Contribution Agreement 1.1  
Signed-off-by: Contributor Name <contributor@example.com>  
---
```

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

```
=== End of sample patch email message ===
```

```
=== Notes for sample patch email ===
```

\* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.

\* git format-patch is one way to create this format

```
=== Definitions for sample patch email ===
```

\* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than

'edk2'. For example 'edk2-BuildSpecification' or 'staging'.

- \* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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-----

Contributions.txt: TianoCore Contribution Agreement 1.0

-----

=====  
= Code Contributions =  
=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0 The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:
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Contributions using other licenses might be accepted, but further review will be required.

=====  
= Change Description / Commit Message / Patch Email =  
=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

==== Start of sample patch email message ====

From: Contributor Name <contributor@example.com>  
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0  
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is



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\* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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John R. Hauser  
2018 January 20

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\* FreeBSD strace list

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{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\", %#x, %o)", NULL, NULL },
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{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
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{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
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John R. Hauser  
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- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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



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# 1.438 pixman 0.38.4 r0

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# 1.439 grep 3.3 r0

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Version 3, 29 June 2007

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## 1.442 jansson 2.12 r0

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*
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* by Mark Gates <mgates@nlanr.net>
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* -----
* input and output numbers, converting with kilo, mega, giga
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-----  
Files: install-sh  
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Calling this script install-sh is preferred over install.sh, to prevent `make` implicit rules from creating a file called install from it when there is no Makefile.

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

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

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

# 1.449 python3-idna 2.9 r0

## 1.449.1 Available under license :

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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
```

```
        'author_email': 'kim@cynosure.com.au',
```

```
        'license': 'BSD-like',
```

```
        'url': 'https://github.com/kjd/idna',
```

```
        'classifiers': [
```

```
            'Development Status :: 5 - Production/Stable',
```

```
            'Intended Audience :: Developers',
```

```
            'Intended Audience :: System Administrators',
```

```
            'License :: OSI Approved :: BSD License',
```

```
            'Operating System :: OS Independent',
```

```
            'Programming Language :: Python',
```

```
            'Programming Language :: Python :: 2',
```

```
            'Programming Language :: Python :: 2.7',
```

```

'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

```

```

setup(**arguments)

```

```

if __name__ == '__main__':
    main()

```

Found in path(s):

\* /opt/cola/permits/1084378005\_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/setup.py

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-----

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Metadata-Version: 1.2

Name: idna

Version: 2.9

Summary: Internationalized Domain Names in Applications (IDNA)

Home-page: <https://github.com/kjd/idna>

Author: Kim Davies

Author-email: [kim@cynosure.com.au](mailto:kim@cynosure.com.au)

License: BSD-like

Description: Internationalized Domain Names in Applications (IDNA)

=====  
Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <<http://tools.ietf.org/html/rfc5891>>`\_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`\_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <<http://tools.ietf.org/html/rfc3490>>`\_).

Basic functions are simply executed:

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
```

```
.  
  
# Python 2  
>>> import idna  
>>> idna.encode(u'.')  
'xn--eckwd4c7c.xn--zckzah'  
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')  
  
.
```

## Packages

-----

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg  
:target: http://badge.fury.io/py/idna
```

## Installation

-----

To install this library, you can use pip:

```
.. code-block:: bash
```

```
$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash
```

```
$ python setup.py install
```

This library works with Python 2.7 and Python 3.4 or later.

## Usage

-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
.. code-block:: pycon
```

```
# Python 3  
>>> import idna  
>>> idna.encode('.')  
b'xn--eckwd4c7c.xn--zckzah'
```

```
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```
.. code-block:: pycon
```

```
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```
.. code-block:: pycon
```

```
# Python 2
>>> idna.alabel(u'')
'xn--0zwm56d'
```

#### Compatibility Mapping (UTS #46)

```
+++++
```

As described in [RFC 5895](http://tools.ietf.org/html/rfc5895) [\[http://tools.ietf.org/html/rfc5895\]](http://tools.ietf.org/html/rfc5895), the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as [Unicode IDNA Compatibility Processing](http://unicode.org/reports/tr46/) [\[http://unicode.org/reports/tr46/\]](http://unicode.org/reports/tr46/), it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as `*LATIN CAPITAL LETTER K*` is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
```



```

idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen

```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the \*LATIN SMALL LETTER SHARP S\* (ß) was converted into two \*LATIN SMALL LETTER S\* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

```

# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'

```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility

+++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions

-----

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics

-----

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

- \* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.
- \* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>.
- \* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

## Testing

-----

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing` <<http://unicode.org/reports/tr46/>>.

The tests are run automatically on each commit at Travis CI:

```
.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: BSD License  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: 3.8  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Internet :: Name Service (DNS)  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: Utilities  
Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

\* /opt/cola/permits/1084378005\_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/PKG-INFO  
\* /opt/cola/permits/1084378005\_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/idna.egg-info/PKG-INFO

# 1.450 gflags 2.2.2 r0

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# 1.451 libpng 1.6.37 r0

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

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# 1.455 gobject-introspection 1.60.2 r0

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## 1.456 python3-attrs 19.3.0 r0

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## 1.457 python3-importlib-metadata 0.23 r0

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## 1.459 ptest-runner

## 2.3.2+gitAUTOINC+7015e9199c r0

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# 1.461 python3-pyspellchecker 0.5.4 r0

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# 1.463 bison 3.4.1 r0

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

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# 1.464 libnl3 3.5.0 r0

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Version 2.1, February 1999

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## 1.465 python-py 1.8.0 r0

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## 1.466 python-pytz 2019.2 r0

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## 1.467 wget 1.20.3 r0

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## 1.468 boost 1.71.0 r0

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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>

</body>

</html>

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
```

```
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
```

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////

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

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

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

# 1.469 acpid 2.0.32 r0

## 1.469.1 Available under license :

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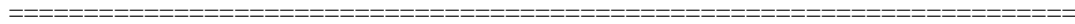
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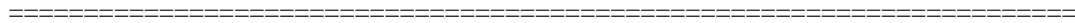
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src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
```

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That's all there is to it!  
Mathieu Desnoyers  
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:

<https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html>



I (Mathieu Desnoyers) re-implemented ACCESS\_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009 :

<http://lkml.org/lkml/2009/5/13/16>

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic\_ops project:

[http://www.hpl.hp.com/research/linux/atomic\\_ops/](http://www.hpl.hp.com/research/linux/atomic_ops/)

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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## 1.476 python-pyasn1 0.4.7 r0

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ASN.1 library for Python

=====

```
.. toctree::
    :maxdepth: 1
```

Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions https://news.ycombinator.com/item?id=8871453](https://news.ycombinator.com/item?id=8871453) on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

\* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

## ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

## ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

## Documentation

-----

```
.. toctree::
    :maxdepth: 2

    /pyasn1/contents
```

## Use case

-----

```
.. toctree::
    :maxdepth: 2
```

/example-use-case

## Download & Install

-----

```
.. toctree::  
    :maxdepth: 2
```

/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
.. toctree::  
    :maxdepth: 1
```

/changelog

## License

-----

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
    :maxdepth: 2
```

/license

## Getting help

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Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_` and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_` or search `pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_` mailing list archive.

## Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

\* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/asn1/dubuisson.html>>`\_ by Olivier Dubuisson

\* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

\* `ITU standards <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_

On the other end of the readability spectrum, here is a quick and sweet write up:

\* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`\_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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\* /opt/ws\_local/PERMITS\_SQL/1084376474\_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-0.4.7/docs/source/contents.rst

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## ASN.1 library for Python

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[!PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)(https://pypi.org/project/pyasn1)  
[!Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)(https://pypi.org/project/pyasn1/)  
[!Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)(https://secure.travis-ci.org/etingof/pyasn1)  
[!Coverage  
Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)(https://codecov.io/github/etingof/pyasn1)  
[!GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)(https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

## Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was

designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```
```

```
)  
)  
)  
...  

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python  
>>> record = Record()  
>>> record['id'] = 123  
>>> record['room'] = 321  
>>> str(record)  
Record:  
id=123  
room=321  
>>>  
...  

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python  
>>> from pyasn1.codec.der.encoder import encode  
>>> substrate = encode(record)  
>>> hexdump(substrate)  
00000: 30 07 02 01 7B 80 02 01 41  
...  

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python  
>>> from pyasn1.codec.der.decoder import decode  
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())  
>>>  
>>> for field in received_record:  
>>>     print('{} is {}'.format(field, received_record[field]))  
id is 123  
room is 321  
house is 0  
>>>  
>>> record == received_record  
True  

```

```
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,  
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or  
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)  
or try browsing pyasn1  
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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\* /opt/ws\_local/PERMITS\_SQL/1084376474\_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-0.4.7/README.md  
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |

|               |           |          |     |     |
|---------------|-----------|----------|-----|-----|
| 2.0.1         | 2.0+1.6.1 | 2001     | PSF | yes |
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF | yes |
| 2.1.2         | 2.1.1     | 2002     | PSF | yes |
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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.

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

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-->

<!-- \$Id\$ -->

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

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

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

<xsl:text>

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</xsl:text>

</xsl:variable>

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

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

<!--

- Local variables:
- mode: sgml
- End:

-->

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## 1.489 openssl 1.1.1g

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# 1.491 multdict 4.5.2

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## 1.493 python-mimeparse 1.6.0

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## 1.494 idna-ssl 1.1.0

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\*

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\*

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# 1.506 bluez 5.50 r0

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# 1.508 python3-paramiko 2.7.2 r0

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

```
<xsl:stylesheet version="1.0"
```

```
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
```

```
  xmlns:xi="http://www.w3.org/2001/XInclude"
```

```
  xmlns:db="http://docbook.org/ns/docbook">
```

```
<xsl:template name="isc.copyright.format">
```

```
  <xsl:param name="text"/>
```

```
  <xsl:value-of select="$isc.copyright.leader"/>
```

```
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
```

```
  <xsl:text>&#10;</xsl:text>
```

```
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
```

```
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
```

```
    <xsl:call-template name="isc.copyright.format">
```

```
      <xsl:with-param name="text" select="$rest"/>
```

```
    </xsl:call-template>
```

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

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

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

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

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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# 1.511 python3-flask-socketio 3.3.2 r0

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# 1.513 python3-werkzeug 0.14.1 r0

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# 1.514 python3-flask 1.0.2 r0

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## 1.515 python3-click 7.1.1 r0

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Metadata-Version: 1.2

Name: click

Version: 7.1.1

Summary: Composable command line interface toolkit

Home-page: <https://palletsprojects.com/p/click/>

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Documentation, <https://click.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/click>

Project-URL: Issue tracker, <https://github.com/pallets/click/issues>

Description: \ \$ click \\_

=====

Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

-----

Install and update using ``pip`_`:

.. code-block:: text

```
$ pip install -U click
```

.. `_pip`: <https://pip.pypa.io/en/stable/quickstart/>

A Simple Example

-----

.. code-block:: python

```
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name", help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."""
    for _ in range(count):
        click.echo(f"Hello, {name}!")

if __name__ == '__main__':
    hello()
```

.. code-block:: text

```
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

Donate

-----

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`\_.

.. \_please donate today: <https://palletsprojects.com/donate>

Links

-----

- Website: <https://palletsprojects.com/p/click/>
- Documentation: <https://click.palletsprojects.com/>
- Releases: <https://pypi.org/project/click/>
- Code: <https://github.com/pallets/click>
- Issue tracker: <https://github.com/pallets/click/issues>
- Test status: [https://dev.azure.com/pallets/click/\\_build](https://dev.azure.com/pallets/click/_build)
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 3  
Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*, !=3.4.\*

Found in path(s):

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\* /opt/cola/permits/1123974516\_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click.egg-info/PKG-INFO

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)
```

```
setup(
```

```
    name="click",
```

```
    version=version,
```

```
    url="https://palletsprojects.com/p/click/",
```

```
    project_urls={
```

```
        "Documentation": "https://click.palletsprojects.com/",
```

```
        "Code": "https://github.com/pallets/click",
```

```
        "Issue tracker": "https://github.com/pallets/click/issues",
```

```
    },
```

```
    license="BSD-3-Clause",
```

```
    maintainer="Pallets",
```

```
    maintainer_email="contact@palletsprojects.com",
```

```
    description="Composable command line interface toolkit",
```

```
    long_description=readme,
```

```
    packages=find_packages("src"),
```

```
    package_dir={"": "src"},
```

```
    include_package_data=True,
```

```
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 3",
],
)
```

Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/setup.py
```

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click/_compat.py
```

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.. \_contrib:

```
=====
click-contrib
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why `click-contrib_` exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. \_click-contrib: <https://github.com/click-contrib/>

Found in path(s):

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\* /opt/cola/permits/1123974516\_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/tests/test\_formatting.py

# 1.516 python3-multidict 4.7.5 r0

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# 1.517 python3-pynacl 1.4.0 r0

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
Marius Aamodt Eriksen <marius@umich.edu>
J. Bruce Fields <bfields@umich.edu>
```

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## 1.520 python3-markupsafe 1.1.1 r0

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```
/**
 * markupsafe._speedups
 * ~~~~~
 *
 * C implementation of escaping for better performance. Used instead of
 * the native Python implementation when compiled.
 *
 * :copyright: 2010 Pallets
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 */
```

Found in path(s):

\* /opt/cola/permits/1123974655\_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/\_speedups.c

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Metadata-Version: 1.2

Name: MarkupSafe

Version: 1.1.1

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: The Pallets Team

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/markupsafe>

Project-URL: Issue tracker, <https://github.com/pallets/markupsafe/issues>

Description: MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

## Installing

-----

Install and update using `pip`:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

## Examples

-----

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup(u'&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
>>> # wrap in Markup to mark text "safe" and prevent escaping
```

```
>>> Markup('<strong>Hello</strong>')
Markup('<strong>hello</strong>')
>>> escape(Markup('<strong>Hello</strong>'))
Markup('<strong>hello</strong>')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>%s</em>")
>>> template % "World"
Markup('Hello <em>&#34;World&#34;</em>')
```

## Donate

-----

The Pallets organization develops and supports MarkupSafe and other libraries that use it. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, please donate today`\_.

.. \_please donate today: <https://palletsprojects.com/donate>

## Links

-----

- \* Website: <https://palletsprojects.com/p/markupsafe/>
- \* Documentation: <https://markupsafe.palletsprojects.com/>
- \* License: `BSD-3-Clause <<https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>>`\_
- \* Releases: <https://pypi.org/project/MarkupSafe/>
- \* Code: <https://github.com/pallets/markupsafe>
- \* Issue tracker: <https://github.com/pallets/markupsafe/issues>
- \* Test status:
  - \* Linux, Mac: <https://travis-ci.org/pallets/markupsafe>
  - \* Windows: <https://ci.appveyor.com/project/pallets/markupsafe>
- \* Test coverage: <https://codecov.io/gh/pallets/markupsafe>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: Text Processing :: Markup :: HTML  
Requires-Python: >=2.7,!=3.0.\*,!=3.1.\*,!=3.2.\*,!=3.3.\*

Found in path(s):

\* /opt/cola/permits/1123974655\_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/PKG-INFO  
\* /opt/cola/permits/1123974655\_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/MarkupSafe.egg-info/PKG-INFO

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\* /opt/cola/permits/1123974655\_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/\_\_init\_\_.py  
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\* /opt/cola/permits/1123974655\_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/\_constants.py

# 1.521 python3-itsdangerous 0.24 r0

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# 1.522 python 3.7.8 r0

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

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

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

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

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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## 1.529 util-linux 2.34.0

### 1.529.1 Available under license :

```
NR START  END SECTORS SIZE NAME UUID
1  32 7679  7648 3.7M   8f8378c0-01
2 7680 16383  8704 4.3M   8f8378c0-02
5 7936 12799  4864 2.4M
6 12544 16127  3584 1.8M
```

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## 1.530 util-linux 2.34

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## 1.533 protobuf 3.9.2

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\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.  
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\* Fixed minor IBM xLC compiler build issues  
\* Added atomicops for AIX (POWER)  
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# 1.537 dtc 1.5.0

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David Gibson <david@gibson.dropbear.id.au>

(principal original author of dtc and libfdt)

2 November 2007

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# 1.539 libflac 1.3.3

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## 1.547 python-setuptools 47.1.0

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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.

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

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

\* re-established. (put back CFG\_PHYIE)

\*

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

\*

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

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

```

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

```

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

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

(If you think you should be in this list, but you are not, drop a  
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```

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```
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```
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import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
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    author_email="armin.ronacher@active-4.com",
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```

```

"Programming Language :: Python :: 3.7",
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"Programming Language :: Python :: Implementation :: CPython",
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],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinj2 = jinj2.ext:babel_extract[i18n]"]},
)

```

Found in path(s):

\* /opt/cola/permits/1155142552\_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py

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

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Metadata-Version: 2.1

Name: Jinja2

Version: 2.11.2

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/jinja>

Project-URL: Issue tracker, <https://github.com/pallets/jinja/issues>

Description: Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

-----  
Install and update using `pip`\_:

.. code-block:: text

```
$ pip install -U Jinja2
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

In A Nutshell

-----

.. code-block:: jinja

```
{% extends "base.html" %}  
{% block title %}Members{% endblock %}  
{% block content %}  
<ul>  
  {% for user in users %}  
    <li><a href="{{ user.url }}">{{ user.username }}</a></li>  
  {% endfor %}  
</ul>  
{% endblock %}
```

Links

-----

- Website: <https://palletsprojects.com/p/jinja/>
- Documentation: <https://jinja.palletsprojects.com/>
- Releases: <https://pypi.org/project/Jinja2/>
- Code: <https://github.com/pallets/jinja>
- Issue tracker: <https://github.com/pallets/jinja/issues>
- Test status: [https://dev.azure.com/pallets/jinja/\\_build](https://dev.azure.com/pallets/jinja/_build)
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: 3.8  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: Text Processing :: Markup :: HTML  
Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*, !=3.4.\*  
Description-Content-Type: text/x-rst  
Provides-Extra: i18n

Found in path(s):

\* /opt/cola/permits/1155142552\_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO  
\* /opt/cola/permits/1155142552\_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO

# 1.554 linux-kernel v5.4.108 d6514ca19a87

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Version 2, June 1991

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# 1.559 linux-kernel v4.19.183 7fe3586dc094

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Upstream-Contact: Doug Ledford <dledford@redhat.com>,

Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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Metadata-Version: 1.1

Name: ws4py

Version: 0.3.5

Summary: WebSocket client and server library for Python 2 and 3 as well as PyPy

Home-page: <https://github.com/Lawouach/WebSocket-for-Python>

Author: Sylvain Hellegouarch

Author-email: [sh@defuze.org](mailto:sh@defuze.org)

License: BSD

Download-URL: <https://pypi.python.org/pypi/ws4py>

Description: WebSocket client and server library for Python 2 and 3 as well as PyPy

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Framework :: CherryPy

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

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## 1.567 subwrap 0.1.0



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2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes

3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
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3.3	3.2	2012	PSF	yes

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes

2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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## A. HISTORY OF THE SOFTWARE

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

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

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

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

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

2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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:

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Found in path(s):

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Metadata-Version: 1.1

Name: falcon

Version: 1.1.0

Summary: An unladen web framework for building APIs and app backends.

Home-page: <http://falconframework.org>

Author: Kurt Griffiths

Author-email: [mail@kgriffs.com](mailto:mail@kgriffs.com)

License: Apache 2.0

Description: Falcon |Docs| |Build Status| |codecov.io|

=====

Perfection is finally attained not when there is no longer anything to add, but when there is no longer anything to take away.

\*- Antoine de Saint-Exup©ry\*

Falcon is a `high-performance Python

framework <http://falconframework.org/index.html> for building cloud APIs. It encourages the REST architectural style, and tries to do as little as possible while remaining highly effective <http://falconframework.org/index.html#Benefits>.

## Quick Links

-----

- \* Read the docs <https://falcon.readthedocs.io/en/stable>.
- \* Join the discussion group <https://groups.google.com/forum/#!forum/falconframework>.
- \* Hang out in #falconframework on freenode <https://kiwiirc.com/client/irc.freenode.net/?#falconframework>.

## Design Goals

-----

**Fast.** Cloud APIs need to turn around requests quickly, and make efficient use of hardware. This is particularly important when serving many concurrent requests. Falcon is among the fastest WSGI frameworks available, processing requests several times faster <http://falconframework.org/#Metrics> than other Python web frameworks.

**Light.** Only the essentials are included, with `six` and `mimemagic` being the only dependencies outside the standard library. We work hard to keep the code lean, making Falcon easier to test, secure, optimize, and deploy.

**Flexible.** Falcon is not opinionated when it comes to talking to databases, rendering content, authorizing requests, etc. You are free to mix and match your own favorite libraries. Falcon apps work with any WSGI server, and run great under CPython 2.6-2.7, PyPy, Jython 2.7, and CPython 3.3-3.5 <https://travis-ci.org/falconry/falcon>.

## Features

-----

- Highly-optimized, extensible code base
- Intuitive routing via URI templates and REST-inspired resource classes
- Easy access to headers and bodies through request and response classes
- DRY request processing via middleware components and hooks
- Idiomatic HTTP error responses
- Straightforward exception handling
- Snappy unit testing through WSGI helpers and mocks
- CPython 2.6-2.7, PyPy, Jython 2.7, and CPython 3.3-3.5 support
- ~20% speed boost when Cython is available



## Who's Using Falcon?

-----

Falcon is used around the world by a growing number of organizations, including:

- 7ideas
- Cronitor
- EMC
- Hurricane Electric
- Leadpages
- OpenStack
- Rackspace
- Shiftgig
- tempfil.es
- Opera Software

If you are using the Falcon framework for a community or commercial project, please consider adding your information to our wiki under ``Who's Using Falcon? <https://github.com/falconry/falcon/wiki/Who's-using-Falcon%3F>`_`

You might also like to view our ``Add-on Catalog <https://github.com/falconry/falcon/wiki/Add-on-Catalog>`_`, where you can find a list of add-ons maintained by the community.

## Installation

-----

### PyPy ^^^^

``PyPy <http://pypy.org/>`_` is the fastest way to run your Falcon app. However, note that only the PyPy 2.7 compatible release is currently supported.

```
.. code:: bash
```

```
$ pip install falcon
```

### CPython ^^^^^^

Falcon also fully supports ``CPython <https://www.python.org/downloads/>`_` 2.6-3.5.

A universal wheel is available on PyPI for the the Falcon framework. Installing it is as simple as:

```
.. code:: bash
```

```
$ pip install falcon
```

Installing the wheel is a great way to get up and running with Falcon quickly in a development environment, but for an extra speed boost when deploying your application in production, Falcon can compile itself with Cython.

The following commands tell pip to install Cython, and then to invoke Falcon's ``setup.py``, which will in turn detect the presence of Cython and then compile (AKA cythonize) the Falcon framework with the system's default C compiler.

```
.. code:: bash
```

```
$ pip install cython
$ pip install --no-binary :all: falcon
```

**\*\*Installing on OS X\*\***

Xcode Command Line Tools are required to compile Cython. Install them with this command:

```
.. code:: bash
```

```
$ xcode-select --install
```

The Clang compiler treats unrecognized command-line options as errors; this can cause problems under Python 2.6, for example:

```
.. code:: bash
```

```
clang: error: unknown argument: '-mno-fused-madd' [-Wunused-command-line-argument-hard-error-in-future]
```

You might also see warnings about unused functions. You can work around these issues by setting additional Clang C compiler flags as follows:

```
.. code:: bash
```

```
$ export CFLAGS="-Qunused-arguments -Wno-unused-function"
```

Dependencies

```
^^^^^^^^^^^^^^
```

Falcon depends on `six` and `python-mimeparse`. `python-mimeparse` is a

better-maintained fork of the similarly named `mimeparse` project. Normally the correct package will be selected by Falcon's ``setup.py``. However, if you are using an alternate strategy to manage dependencies, please take care to install the correct package in order to avoid errors.

## WSGI Server

-----

Falcon speaks WSGI, and so in order to serve a Falcon app, you will need a WSGI server. Gunicorn and uWSGI are some of the more popular ones out there, but anything that can load a WSGI app will do.

```
.. code:: bash
```

```
$ pip install [gunicorn|uwsgi]
```

## Source Code

-----

Falcon lives on GitHub <<https://github.com/falconry/falcon>>, making the code easy to browse, download, fork, etc. Pull requests are always welcome! Also, please remember to star the project if it makes you happy. :)

Once you have cloned the repo or downloaded a tarball from GitHub, you can install Falcon like this:

```
.. code:: bash
```

```
$ cd falcon
$ pip install .
```

Or, if you want to edit the code, first fork the main repo, clone the fork to your desktop, and then run the following to install it using symbolic linking, so that when you change your code, the changes will be automatically available to your app without having to reinstall the package:

```
.. code:: bash
```

```
$ cd falcon
$ pip install -e .
```

You can manually test changes to the Falcon framework by switching to the directory of the cloned repo and then running pytest:

```
.. code:: bash
```

```
$ cd falcon
```

```
$ pip install -r tools/test-requires
$ pytest tests
```

Or, to run the default set of tests:

```
.. code:: bash
```

```
$ pip install tox && tox
```

See also the `tox.ini` <<https://github.com/falconry/falcon/blob/master/tox.ini>> file for a full list of available environments.

Read the docs

-----

The docstrings in the Falcon code base are quite extensive, and we recommend keeping a REPL running while learning the framework so that you can query the various modules and classes as you have questions.

Online docs are available at: <https://falcon.readthedocs.io>

You can build the same docs locally as follows:

```
.. code:: bash
```

```
$ pip install tox && tox -e docs
```

Once the docs have been built, you can view them by opening the following index page in your browser. On OS X it's as simple as::

```
$ open docs/_build/html/index.html
```

Or on Linux:

```
$ xdg-open docs/_build/html/index.html
```

Getting started

-----

Here is a simple, contrived example showing how to create a Falcon-based API.

```
.. code:: python
```

```
# things.py
```

```
# Let's get this party started!
```

```
import falcon
```

```

# Falcon follows the REST architectural style, meaning (among
# other things) that you think in terms of resources and state
# transitions, which map to HTTP verbs.
class ThingsResource(object):
    def on_get(self, req, resp):
        """Handles GET requests"""
        resp.status = falcon.HTTP_200 # This is the default status
        resp.body = ('\nTwo things awe me most, the starry sky '
                    'above me and the moral law within me.\n'
                    '\n'
                    ' ~ Immanuel Kant\n\n')

# falcon.API instances are callable WSGI apps
app = falcon.API()

# Resources are represented by long-lived class instances
things = ThingsResource()

# things will handle all requests to the '/things' URL path
app.add_route('/things', things)

```

You can run the above example using any WSGI server, such as uWSGI or Gunicorn. For example:

```
.. code:: bash
```

```
$ pip install gunicorn
$ gunicorn things:app
```

Then, in another terminal:

```
.. code:: bash
```

```
$ curl localhost:8000/things
```

A more complex example

-----

Here is a more involved example that demonstrates reading headers and query parameters, handling errors, and working with request and response bodies.

```
.. code:: python
```

```
import json
import logging
```

```

import uuid
from wsgiref import simple_server

import falcon
import requests

class StorageEngine(object):

    def get_things(self, marker, limit):
        return [{'id': str(uuid.uuid4()), 'color': 'green'}]

    def add_thing(self, thing):
        thing['id'] = str(uuid.uuid4())
        return thing

class StorageError(Exception):

    @staticmethod
    def handle(ex, req, resp, params):
        description = ('Sorry, couldn\'t write your thing to the '
                       'database. It worked on my box.')

        raise falcon.HTTPError(falcon.HTTP_725,
                               'Database Error',
                               description)

class SinkAdapter(object):

    engines = {
        'ddg': 'https://duckduckgo.com',
        'y': 'https://search.yahoo.com/search',
    }

    def __call__(self, req, resp, engine):
        url = self.engines[engine]
        params = {'q': req.get_param('q', True)}
        result = requests.get(url, params=params)

        resp.status = str(result.status_code) + ' ' + result.reason
        resp.content_type = result.headers['content-type']
        resp.body = result.text

class AuthMiddleware(object):

```

```

def process_request(self, req, resp):
    token = req.get_header('Authorization')
    account_id = req.get_header('Account-ID')

    challenges = ["Token type=\"Fernet\""]

    if token is None:
        description = ('Please provide an auth token '
                       'as part of the request.')

        raise falcon.HTTPUnauthorized('Auth token required',
                                      description,
                                      challenges,
                                      href='http://docs.example.com/auth')

    if not self._token_is_valid(token, account_id):
        description = ('The provided auth token is not valid. '
                       'Please request a new token and try again.')

        raise falcon.HTTPUnauthorized('Authentication required',
                                      description,
                                      challenges,
                                      href='http://docs.example.com/auth')

def _token_is_valid(self, token, account_id):
    return True # Suuuuuure it's valid...

```

```

class RequireJSON(object):

```

```

    def process_request(self, req, resp):
        if not req.client_accepts_json:
            raise falcon.HTTPNotAcceptable(
                'This API only supports responses encoded as JSON.',
                href='http://docs.examples.com/api/json')

        if req.method in ('POST', 'PUT'):
            if 'application/json' not in req.content_type:
                raise falcon.HTTPUnsupportedMediaType(
                    'This API only supports requests encoded as JSON.',
                    href='http://docs.examples.com/api/json')

```

```

class JSONTranslator(object):

```

```

    def process_request(self, req, resp):
        # req.stream corresponds to the WSGI wsgi.input environ variable,
        # and allows you to read bytes from the request body.

```

```

#
# See also: PEP 3333
if req.content_length in (None, 0):
    # Nothing to do
    return

body = req.stream.read()
if not body:
    raise falcon.HTTPBadRequest('Empty request body',
                                'A valid JSON document is required.')

try:
    req.context['doc'] = json.loads(body.decode('utf-8'))

except (ValueError, UnicodeDecodeError):
    raise falcon.HTTPError(falcon.HTTP_753,
                          'Malformed JSON',
                          'Could not decode the request body. The '
                          'JSON was incorrect or not encoded as '
                          'UTF-8.')

def process_response(self, req, resp, resource):
    if 'result' not in req.context:
        return

    resp.body = json.dumps(req.context['result'])

def max_body(limit):

def hook(req, resp, resource, params):
    length = req.content_length
    if length is not None and length > limit:
        msg = ('The size of the request is too large. The body must not '
              'exceed ' + str(limit) + ' bytes in length.')

        raise falcon.HTTPRequestEntityTooLarge(
            'Request body is too large', msg)

    return hook

class ThingsResource(object):

def __init__(self, db):
    self.db = db
    self.logger = logging.getLogger('thingsapp.' + __name__)

```



```

def on_get(self, req, resp, user_id):
    marker = req.get_param('marker') or ''
    limit = req.get_param_as_int('limit') or 50

    try:
        result = self.db.get_things(marker, limit)
    except Exception as ex:
        self.logger.error(ex)

    description = ('Aliens have attacked our base! We will '
                  'be back as soon as we fight them off. '
                  'We appreciate your patience.')

    raise falcon.HTTPServiceUnavailable(
        'Service Outage',
        description,
        30)

    # An alternative way of doing DRY serialization would be to
    # create a custom class that inherits from falcon.Request. This
    # class could, for example, have an additional 'doc' property
    # that would serialize to JSON under the covers.
    req.context['result'] = result

    resp.set_header('Powered-By', 'Falcon')
    resp.status = falcon.HTTP_200

    @falcon.before(max_body(64 * 1024))
    def on_post(self, req, resp, user_id):
        try:
            doc = req.context['doc']
        except KeyError:
            raise falcon.HTTPBadRequest(
                'Missing thing',
                'A thing must be submitted in the request body.')

        proper_thing = self.db.add_thing(doc)

        resp.status = falcon.HTTP_201
        resp.location = '/%s/things/%s' % (user_id, proper_thing['id'])

# Configure your WSGI server to load "things.app" (app is a WSGI callable)
app = falcon.API(middleware=[
    AuthMiddleware(),
    RequireJSON(),
    JSONTranslator(),
])

```

```

db = StorageEngine()
things = ThingsResource(db)
app.add_route('/{user_id}/things', things)

# If a responder ever raised an instance of StorageError, pass control to
# the given handler.
app.add_error_handler(StorageError, StorageError.handle)

# Proxy some things to another service; this example shows how you might
# send parts of an API off to a legacy system that hasn't been upgraded
# yet, or perhaps is a single cluster that all data centers have to share.
sink = SinkAdapter()
app.add_sink(sink, r'/search/(?P<engine>ddg|y)\Z')

# Useful for debugging problems in your API; works with pdb.set_trace(). You
# can also use Gunicorn to host your app. Gunicorn can be configured to
# auto-restart workers when it detects a code change, and it also works
# with pdb.
if __name__ == '__main__':
    httpd = simple_server.make_server('127.0.0.1', 8000, app)
    httpd.serve_forever()

```

## Community

-----

The Falcon community maintains a discussion group that you can use to share your ideas and ask questions about the framework. To join the discussion, please visit <https://groups.google.com/d/forum/falconframework>.

Per our

``Code of Conduct <https://github.com/falconry/falcon/blob/master/CODEOFCONDUCT.md>``, we expect everyone who participates in community discussions to act professionally, and lead by example in encouraging constructive discussions. Each individual in the community is responsible for creating a positive, constructive, and productive culture.

We also hang out in

``#falconframework <https://kiwiirc.com/client/irc.freenode.net/?#falconframework>`` on freenode, where everyone is always welcome to ask questions and share ideas.

## Contributing

-----

Kurt Griffiths (kgriffs) is the creator and current maintainer of the Falcon framework, with the generous help of a number of stylish and

talented contributors.

Pull requests are always welcome. We use the GitHub issue tracker to organize our work, but you do not need to open a new issue before submitting a PR.

Before submitting a pull request, please ensure you have added/updated the appropriate tests (and that all existing tests still pass with your changes), and that your coding style follows PEP 8 and doesn't cause pyflakes to complain.

Commit messages should be formatted using `AngularJS` conventions <http://goo.gl/QpbS7> `\_\_`.

Comments follow `Google's style guide` <https://google.github.io/styleguide/pyguide.html?showone=Comments#Comments> `\_\_`, with the additional requirement of prefixing inline comments using your GitHub nick and an appropriate prefix:

- TODO(riker): Damage report!
- NOTE(riker): Well, that's certainly good to know.
- PERF(riker): Travel time to the nearest starbase?
- APPSEC(riker): In all trust, there is the possibility for betrayal.

See also: `CONTRIBUTING.md` <https://github.com/falconry/falcon/blob/master/CONTRIBUTING.md> `\_\_`

Legal

-----

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.. |Docs| image:: <https://readthedocs.org/projects/falcon/badge/?version=stable>

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:alt: Falcon web framework docs  
.. |Runner| image:: <https://a248.e.akamai.net/assets.github.com/images/icons/emoji/runner.png>  
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:target: <http://codecov.io/github/falconry/falcon?branch=master>

Keywords: wsgi web api framework rest http cloud

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Natural Language :: English

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Operating System :: Microsoft :: Windows

Classifier: Operating System :: POSIX

Classifier: Topic :: Internet :: WWW/HTTP :: WSGI

Classifier: Topic :: Software Development :: Libraries :: Application Frameworks

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Programming Language :: Python :: Implementation :: Jython

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/PKG-INFO

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon.egg-info/PKG-INFO

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Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/helpers.py

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```

Found in path(s):

```
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/resource.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/bench.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http_error.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/responders.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/api.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/stats.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/misc.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/client.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request_helpers.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response_helpers.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/redirects.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/__init__.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/print_routes.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/errors.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/claims.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/hooks.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/__init__.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-  
1.1.0/falcon/bench/queues/messages.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/uri.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/base.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/tools/build.sh  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/status_codes.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/queues.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/version.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/bench.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api_helpers.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/__init__.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http_status.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/compiled.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/util.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/srmock.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/test_case.py  
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/create.py
```

# 1.574 pyudev 0.21.0

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# 1.575 python-requests 2.22.0

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# 1.576 ply 3.11

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# PLY (Python Lex-Yacc)                      Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.  
If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

#### How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

#### Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

#### Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

#### Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards

compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

#### Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----
# calc.py
#
# A simple calculator with variables.
# -----

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
)

# Tokens

t_PLUS = r\+'
t_MINUS = r\-'
t_TIMES = r\*'
t_DIVIDE = r\/'
t_EQUALS = r\='
t_LPAREN = r\( '
t_RPAREN = r\) '
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
```

```

t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'

```

```

try:
    p[0] = names[p[1]]
except LookupError:
    print("Undefined name '%s'" % p[1])
    p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

```

## Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave

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0f398b7/ply/lex.py  
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-  
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0f398b7/example/GardenSnake/GardenSnake.py
```

# 1.577 markupsafe 1.1.1

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/\*\*

\* markupsafe.\_speedups

\* ~~~~~

\*

\* C implementation of escaping for better performance. Used instead of  
\* the native Python implementation when compiled.

\*

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# 1.578 urllib3 1.25.6

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# Contributions to the urllib3 project

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## Contributors

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\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

- \* niphlod <niphlod@gmail.com>
- \* Client-verified SSL certificates for HTTPSConnectionPool
- \* Response gzip and deflate encoding support
- \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
- \* Non-multipart encoding for POST requests
  
- \* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
- \* Code review, PEP8 compliance, benchmark fix
  
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- \* IPv6 url support and test coverage
  
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- \* hartator <hartator@gmail.com>
- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions

- \* Boris Figovsky <boris.figovsky@ravello systems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield <https://lukasa.co.uk/about/>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastic hosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage

- \* Tahia Khan <<http://tahia.tk/>>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <<https://grunseid.com>>
- \* source\_address support and tests (with <https://github.com/bui>)
  
- \* Ian Cordasco <[graffatcolmingov@gmail.com](mailto:graffatcolmingov@gmail.com)>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
- \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
- \* Google App Engine documentation
  
- \* Aaron Meurer <[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
- \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto:ttomecek@redhat.com)>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <<https://github.com/tlynn>>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <[ddriddle@illinois.edu](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto:magicalgirl@google.com)>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <<https://github.com/talos>>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <<https://github.com/Disassem>>

- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
  - \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
  - \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
  - \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
  - \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
  - \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
  - \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
  - \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
  - \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <jayvdb@gmail.com>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <jesse@jesseshapiro.net>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
  - \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
  - \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.

- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy

- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header regardless of case when redirecting to cross-site
  
- \* James Meickle <https://permadeath.com/>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
- \* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.579 flask 1.0.2

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## 1.581 jinja2 2.10.3

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# 1.583 pyopenssl 19.1.0

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## 1.585 pyrsistent 0.15.5

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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.
```

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

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

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# 1.587 python-pam 1.8.2

## 1.587.1 Available under license :

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Metadata-Version: 1.1

Name: python-pam

Version: 1.8.2

Summary: Python PAM module using ctypes, py3/py2

Home-page: <https://github.com/FirefighterBlu3/python-pam>

Author: David Ford

Author-email: [david@blue-labs.org](mailto:david@blue-labs.org)

License: License :: OSI Approved :: MIT License

Download-URL: <https://github.com/FirefighterBlu3/python-pam>

Description: python-pam

=====

Python pam module supporting py3 (and py2)

Commandline example:

...

```
[david@Scott python-pam]$ python pam.py
```

```
Username: david
```

```
Password:
```

```
0 Success
```

```
[david@Scott python-pam]$ python2 pam.py
```

```
Username: david
```

```
Password:
```

```
0 Success
```

...

Inline examples:

...

```
[david@Scott python-pam]$ python
```

```
Python 3.4.1 (default, May 19 2014, 17:23:49)
```

```
[GCC 4.9.0 20140507 (prerelease)] on linux
```

```
Type "help", "copyright", "credits" or "license" for more information.
```

```
>>> import pam
```

```
>>> p = pam.pam()
```

```
>>> p.authenticate('david', 'correctpassword')
```

```
True
```

```
>>> p.authenticate('david', 'badpassword')
```

```
False
```

```
>>> p.authenticate('david', 'correctpassword', service='login')
```

```

True
>>> p.authenticate('david', 'correctpassword', service='unknownservice')
False
>>> p.authenticate('david', 'correctpassword', service='login', resetcreds=True)
True
>>> p.authenticate('david', 'correctpassword', encoding='latin-1')
True
>>> print('{} {}'.format(p.code, p.reason))
0 Success
>>> p.authenticate('david', 'badpassword')
False
>>> print('{} {}'.format(p.code, p.reason))
7 Authentication failure
>>>
'''

```

Platform: i686

Platform: x86\_64

Classifier: Development Status :: 6 - Mature

Classifier: Environment :: Plugins

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: MIT License

Classifier: Operating System :: POSIX

Classifier: Operating System :: POSIX :: Linux

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Classifier: Topic :: Security

Classifier: Topic :: System :: Systems Administration :: Authentication/Directory

Found in path(s):

\* /opt/cola/permits/1167866013\_1621876791.03/0/python-pam-1-8-2-1-tar-gz/python-pam-1.8.2/python\_pam.egg-info/PKG-INFO

\* /opt/cola/permits/1167866013\_1621876791.03/0/python-pam-1-8-2-1-tar-gz/python-pam-1.8.2/PKG-INFO

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\* /opt/cola/permits/1167866013\_1621876791.03/0/python-pam-1-8-2-1-tar-gz/python-pam-1.8.2/pam.py

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import os

from setuptools import setup

def read(fname):

```

return open(os.path.join(os.path.dirname(__file__), fname)).read()

__sdesc = 'Python PAM module using ctypes, py3/py2'

setup(name          = 'python-pam',
      description   = __sdesc,
      long_description = read('README.md'),
      py_modules    = ['pam'],
      version       = '1.8.2',
      author        = 'David Ford',
      author_email  = 'david@blue-labs.org',
      maintainer    = 'David Ford',
      maintainer_email = 'david@blue-labs.org',
      url           = 'https://github.com/FirefighterBlu3/python-pam',
      download_url  = 'https://github.com/FirefighterBlu3/python-pam',
      bugtrack_url  = 'https://github.com/FirefighterBlu3/python-pam/issues',
      license       = 'License :: OSI Approved :: MIT License',
      platforms     = ['i686','x86_64'],
      classifiers   = [
        'Development Status :: 6 - Mature',
        'Environment :: Plugins',
        'Intended Audience :: Developers',
        'Intended Audience :: Information Technology',
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        'License :: OSI Approved :: MIT License',
        'Operating System :: POSIX',
        'Operating System :: POSIX :: Linux',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 3',
        'Topic :: Security',
        'Topic :: System :: Systems Administration :: Authentication/Directory',
      ],
    )

```

Found in path(s):

\* /opt/cola/permits/1167866013\_1621876791.03/0/python-pam-1-8-2-1-tar-gz/python-pam-1.8.2/setup.py

## 1.588 setuptools-scm 2.1.0

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# 1.589 docker 3.4.0

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# 1.591 pyasn1 0.4.7 r0

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ASN.1 library for Python

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Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions https://news.ycombinator.com/item?id=8871453](https://news.ycombinator.com/item?id=8871453) on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

\* Data types: the standard introduces a collection of basic data types

(integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

\* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

\* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

#### Documentation

-----

```
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    :maxdepth: 2  
  
    /pyasn1/contents
```



## Use case

-----

```
.. toctree::  
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```

/example-use-case

## Download & Install

-----

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/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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```

/changelog

## License

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The PyASN1 software is distributed under 2-clause BSD License.

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```

/license

## Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>` \_  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>` \_ at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>` \_  
or search  
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>` \_

mailing list archive.

## Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/asn1/dubuisson.html>>` \_ by Olivier Dubuisson
- \* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` \_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` \_

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` \_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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## ASN.1 library for Python

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[![PyPI](<https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000>)](<https://pypi.org/project/pyasn1>)  
[![Python Versions](<https://img.shields.io/pypi/pyversions/pyasn1.svg>)](<https://pypi.org/project/pyasn1/>)  
[![Build status](<https://travis-ci.org/etingof/pyasn1.svg?branch=master>)](<https://secure.travis-ci.org/etingof/pyasn1>)  
[![Coverage Status](<https://img.shields.io/codecov/c/github/etingof/pyasn1.svg>)](<https://codecov.io/github/etingof/pyasn1>)  
[![GitHub license](<https://img.shields.io/badge/license-BSD-blue.svg>)](<https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt>)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification]([https://www.itu.int/rec/dologin\\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items)).

## Features

- 
- \* Generic implementation of ASN.1 types (X.208)
  - \* Standards compliant BER/CER/DER codecs
  - \* Dumps/loads ASN.1 structures from Python types
  - \* 100% Python, works with Python 2.4 up to Python 3.7
  - \* MT-safe
  - \* Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
)
)
)
```

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
0000: 30 07 02 01 7B 80 02 01 41
```

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1  
-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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Found in path(s):

\* /opt/cola/permits/1155340545\_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/README.md

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## 1.592 ndg-httpsclient 0.5.1-4.ph4

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## 1.598 python-engineio 3.9.3

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## 1.599 idna 11.0.0

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# 1.600 click 7.0

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```
.. _contrib:
```

```
=====  
click-contrib  
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib\_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such

extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

```
.. _click-contrib: https://github.com/click-contrib/
```

Found in path(s):

```
* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/docs/contrib.rst
```

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```
* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/_termui_impl.py
```

```
* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/__init__.py
```

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=====

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License Text

-----

```
.. include:: ../LICENSE.rst
```

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```
* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/docs/license.rst
```

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```
import io
```

```
import re
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("click/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r"__version__ = \"(?:.*?)\"", f.read()).group(1)
```

```
setup(  
    name="Click",  
    version=version,  
    url="https://palletsprojects.com/p/click/",  
    project_urls={  
        "Documentation": "https://click.palletsprojects.com/",  
        "Code": "https://github.com/pallets/click",  
        "Issue tracker": "https://github.com/pallets/click/issues",  
    },  
    license="BSD",  
    author="Armin Ronacher",  
    author_email="armin.ronacher@active-4.com",  
    maintainer="Pallets Team",  
    maintainer_email="contact@palletsprojects.com",  
    description="Composable command line interface toolkit",  
    long_description=readme,  
    packages=["click"],  
    include_package_data=True,  
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",  
    classifiers=[  
        "Development Status :: 5 - Production/Stable",  
        "Intended Audience :: Developers",  
        "License :: OSI Approved :: BSD License",  
        "Operating System :: OS Independent",  
        "Programming Language :: Python",  
        "Programming Language :: Python :: 2",  
        "Programming Language :: Python :: 2.7",  
        "Programming Language :: Python :: 3",  
        "Programming Language :: Python :: 3.4",  
        "Programming Language :: Python :: 3.5",  
        "Programming Language :: Python :: 3.6",  
        "Programming Language :: Python :: 3.7",  
    ],  
)
```

Found in path(s):

```
* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/setup.py
```

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```
\$ click\_
```

```
=====
```

Click is a Python package for creating beautiful command line interfaces

in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
$ pip install click
```

Click supports Python 3.4 and newer, Python 2.7, and PyPy.

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

A Simple Example

-----

What does it look like? Here is an example of a simple Click program:

.. code-block:: python

```
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name",
              help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."""
    for _ in range(count):
        click.echo("Hello, %s!" % name)

if __name__ == '__main__':
```

```
hello()
```

And what it looks like when run:

```
.. code-block:: text
```

```
$ python hello.py --count=3
```

```
Your name: Click
```

```
Hello, Click!
```

```
Hello, Click!
```

```
Hello, Click!
```

Donate

-----

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`\_.

```
.. _please donate today: https://palletsprojects.com/donate
```

Links

-----

- \* Website: <https://palletsprojects.com/p/click/>
- \* Documentation: <https://click.palletsprojects.com/>
- \* License: `BSD <<https://github.com/pallets/click/blob/master/LICENSE.rst>>`\_
- \* Releases: <https://pypi.org/project/click/>
- \* Code: <https://github.com/pallets/click>
- \* Issue tracker: <https://github.com/pallets/click/issues>
- \* Test status:
  
- \* Linux, Mac: <https://travis-ci.org/pallets/click>
- \* Windows: <https://ci.appveyor.com/project/pallets/click>
  
- \* Test coverage: <https://codecov.io/gh/pallets/click>

Found in path(s):

```
* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/README.rst
```

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----

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# binary only, patch it back to the system, and then use a wrapper

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\* /opt/cola/permits/1183964583\_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/\_compat.py

# 1.601 procps 3.3.15

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## 1.602 shadow 4.6

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## 1.604 six 1.12.0-1.ph3

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

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

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

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

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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## 1.610 pyyaml 5.3.1 r0

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## 1.611 lvm2 2.03.02

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of

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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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ca-bundle.crt -- Bundle of CA Root Certificates

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

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

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

\*/

# 1.614 pyaes 1.6.0

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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.

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

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

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  
\*  
\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
\*  
\* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
\* see init\_nicstar() for PHY initialization to change this. This driver  
\* expects the Linux ATM stack to support scatter-gather lists  
\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
\*  
\* Implementing minimal-copy of received data:  
\* IDT always receives data into a small buffer, then large buffers  
\* as needed. This means that data must always be copied to create  
\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
\* Fix is simple: make large buffers large enough to hold entire  
\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
\* copy small buffer contents to head of large buffer.  
\* Trick is to avoid fragmenting Linux, due to need for a lot of large  
\* buffers. This is done by 2 things:  
\* 1) skb->destructor / skb->atm.recycle\_buffer  
\* combined, allow nicstar\_free\_rx\_skb to be called to  
\* recycle large data buffers  
\* 2) skb\_clone of received buffers  
\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
\*  
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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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## 1.622 py 1.11.0

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## 1.623 fdisk 2.34.0

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```

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## 1.625 sysv-init 2.86-1

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,

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# 1.626 sysv-init 2.88

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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# 1.627 sysklogd 1.5.1

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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# 1.628 eudev 3.2.8

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Version 2, June 1991

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```
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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.

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That's all there is to it!

# 1.630 libcgroup 0.41

## 1.630.1 Available under license :

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

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

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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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# 1.634 Ivm2 1.02.155

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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# 1.637 libxcrypt 4.4.8

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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.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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